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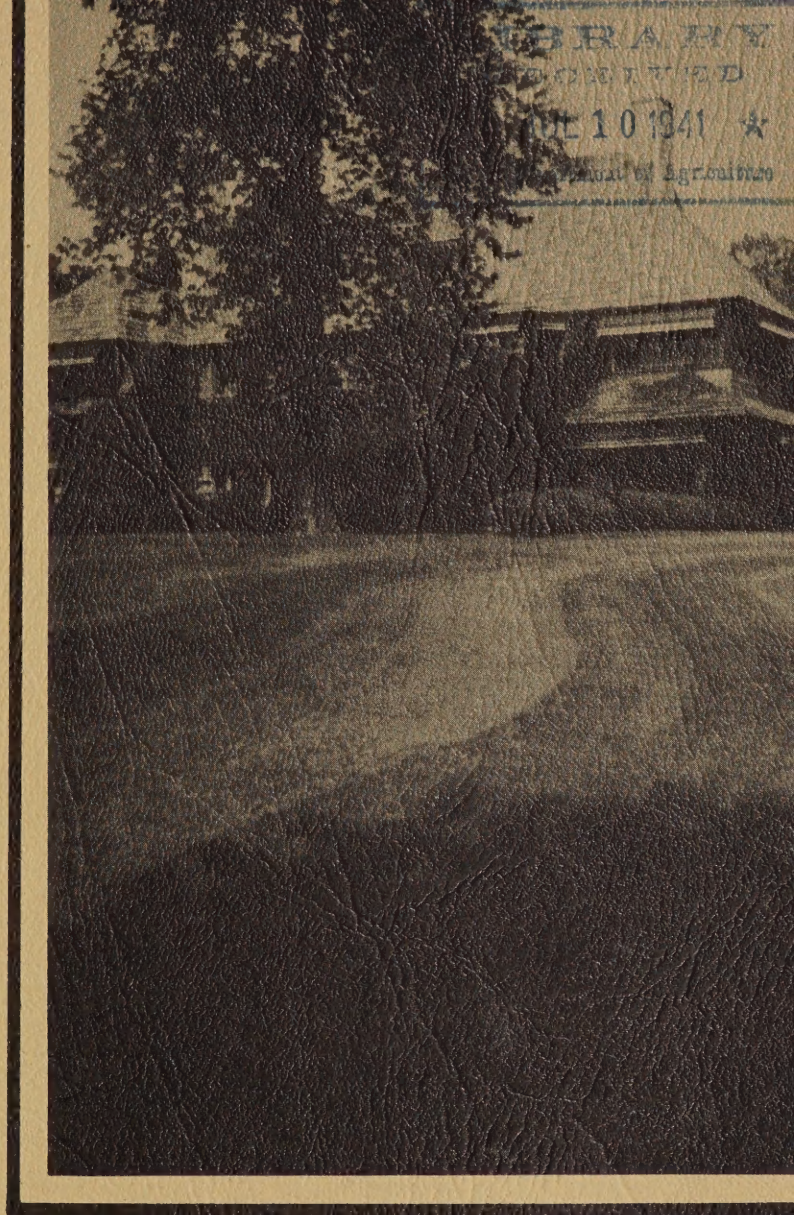
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vol 7

Permalawn  
Products  
Company

1941

Catalog of lawn &  
vegetable seeds

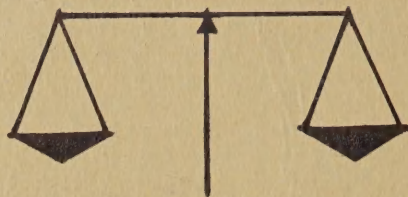


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U.S. DEPT. OF AGRICULTURE

Garden Aids



# *Cooperate With Nature*



## **A SCIENTIFIC SERVICE**

Occasionally a beautiful lawn or garden may be produced without any definite program of maintenance. But generally the maintenance program, to be effective, must be adjusted to the growth conditions existing, supplementing favorable conditions and correcting those which are not conducive to best results.

We offer our patrons the most complete and effective Garden Service available. Under the direction of Dr. J. F. Fonder, soil technologist and plant physiologist, with years of experience in analyzing growth conditions and preparing efficient maintenance programs, this service provides a really scientific approach to your garden problems. It can supply a logical working basis and guide for the home owner, the professional gardener, the landscape contractor, the professional landscape architect, or the park superintendent.

## **A COMPLETE SERVICE**

1. An inspection and analysis of existing growth conditions as concerns shading, ventilation, drainage, and the like.
2. A soil survey and analysis to determine the areas involved, differences in soil type, and the supply of available plant food in the soil in different locations.
3. The submission of a suggested program of maintenance covering an explanation of adverse growth factors with possible remedial measures.

A follow-up service to adjust the program to changing conditions.

During the past six years this service has aided many engaged in maintenance and construction work to secure better lawns and gardens and to avoid wasted effort and needless expenditures. It is offered to our patrons to assist them in securing the best possible results from our products. Those customers too far removed from Evanston to make an inspection possible, or where the program will not justify an inspection will, upon request, be sent full instructions for submitting soil samples and other information needed in formulating a maintenance program.

Since our business is being built upon the foundation of Better Service to our customers it follows that the products we sell must be good or our Service will mean nothing. Careful thought and observation, guided by a scientific appreciation of the fundamentals required in garden supplies of various types, govern us in the selection of the products we recommend. We believe this can mean much to our patrons.

# *Permalawn Products Company*

**SPECIALTY PRODUCTS FOR BETTER GARDENING  
AND TREE CULTURE.**



# Quality Lawn Seeds

ITS  
WELL TO  
KNOW

## PREPARING THE NEW SEED BED

The future excellence of the lawn depends largely upon whether the permanent level of the surface is secured before the seed is sown. After the soil is pulverized it should be allowed to settle for several

days or should be rolled heavily to establish the high and low areas, which then should be leveled. An approximate level of the new surface should always be obtained *before* peat moss, sand, plant food, or other materials are incorporated in the soil. After these materials are thoroughly incorporated the area should be raked carefully to produce a perfectly level surface.

## MISCELLANEOUS LAWN SEEDS

	1 lb.	5 lbs.	10 lbs.	25 lbs.	50 lbs.
<b>Kentucky Blue Grass</b>					
21 lb. per bu. 85% purity .....	35c	\$1.60	\$3.00	\$ 7.15	\$14.00
24 lb. per bu. 90% purity .....	45c	2.25	4.20	9.50	17.50
28 lb. per bu. 98% purity .....	50c	2.50	4.90	11.75	22.50
<b>Red Top 95% purity</b> .....	30c	1.35	2.50	5.75	10.00
98% purity .....	40c	1.90	3.60	8.75	17.00
<b>Astoria Bent (Blue Tag)</b> .....	\$1.15	5.50	10.75	25.00	
<b>Seaside Creeping Bent (Blue Tag)</b> .....	\$1.10	5.25	10.25	23.75	
<b>Poa trivialis (Rough Stalked Meadow) 85% purity</b> .....	1.10	5.30	10.50	25.00	50.00
90% purity .....	1.20	5.95	11.50	27.50	55.00
98% purity .....	1.35	6.70	13.00	31.75	62.50
<b>Poa Annua (Annual Blue Grass)</b> .....	90c	4.45	8.50	20.75	
<b>Canada Blue Grass, excellent for paths</b> .....	45c	2.20	4.20	10.00	18.50
<b>Chewing's Fescue (New Zealand grown) 99% purity</b> .....	99c	4.10	8.00	19.50	38.50
<b>Meadow Fescue, Not suitable for lawns</b> .....	25c	1.10	1.90	4.00	7.00
<b>Domestic Rye Grass (Suitable only as nurse grass)</b> .....	25c	1.10	2.00	4.00	7.00
<b>White Clover (99% purity)</b> .....	1.30	6.45	12.30	30.50	60.00

## HOW TO SEED THE LAWN

To secure an even stand of grass of uniform texture sow one half the seed in one direction and the balance in a direction at right angles to the first. Distribute the seed from as close to the ground surface as possible, preferably through a distributor such as the Permalawn Master Distributor, to avoid separation of the seeds of different weights. Seed lightly rather than heavily for the best permanent results.

## CORRECT RAKING IMPORTANT

Equally as important as even distribution is the method of covering the seed to obtain good germination. The garden rake should be *pushed* across the surface, teeth down and with no pressure on the handle. The rake should not be pulled, nor pushed and pulled, as this will always produce patchiness. Mulch the surface lightly with peat moss, roll heavily, soak deeply and keep moist several weeks until all seed has germinated.



## NEW LAWNS FROM OLD

A lawn gets shabby only because of neglect and will take on new life and vigor if given proper attention. The program can be carried out most effectively in the spring or early fall, the grass being in the most responsive condition during those periods.

The first step should be the removal of weeds which may be present and the leveling of the surface with top soil if necessary. Then the lawn should be given a good feeding. This will cause the old grass to start new growth and to stool or spread out, with the production of a noticeably thicker and stronger turf. This method is much more effective than a general reseeding without the use of plant food.

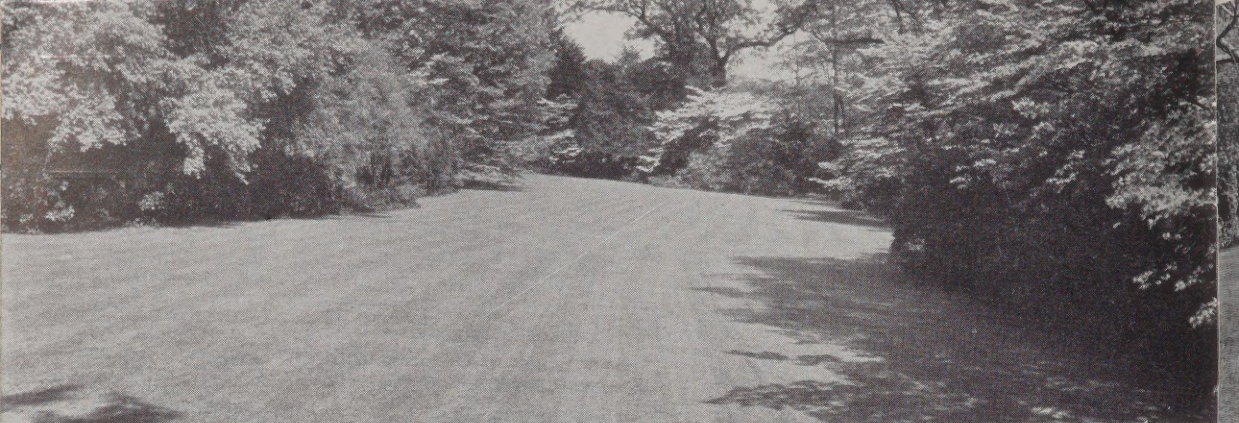
## SEEDING BARE AREAS

Bare areas can be prepared for seeding most effectively by running the Spike Disc forward and back across them until the soil is loosened sufficiently to provide a cover for the seed and a foothold for the young grass. This method generally will be found more satisfactory and more economical

➡ The cost of good seed is the smallest part of the cost of a new lawn.

than to cover the areas with new soil. Better results may be expected if peat moss is spread on the surface, one bale to 1000 sq. ft. of area.





Many a good lawn is ruined by improper clipping. Cut at a height of  $1\frac{1}{4}$  to  $1\frac{1}{2}$  inches spring, summer, and fall.

# PERMALAWN

## PERMANENT TURF GRASSES

Only a limited number of grasses are suitable for lawn purposes in the northern part of the United States. These include (1) Kentucky Bluegrass, (2) New Zealand Chewing's Fescue, (3) Poa trivialis (shade only), and (4) the various bent grasses. These are permanent grasses, fine in texture, beautiful in color, and any good lawn seed blend must be built around them.

## SEED BLENDS

Better results will be secured if the turf grasses, which germinate slowly and grow slowly when young, are sown in conjunction with quick germinating and rapid growing nurse grasses, such as Red Top and Rye Grass, but the proportion of the seeds of the nurse grasses must be small as otherwise they will crowd out the turf grasses instead of helping them develop. Permalawn Sunny and Semi-Shady blends contain only 25 percent of Red Top and Permalawn Shady but 20 percent.

Lawn seed mixtures cannot be judged on the basis of "quick" results. The "four day" lawn will usually be a temporary lawn.

## PERMALAWN SEEDS

Permalawn Seeds contain only the highest quality Kentucky Bluegrass, New Zealand Chewing's Fescue, Poa trivialis, Astoria Bent, and Red Top seed, blended in scientifically correct proportions to produce beautiful and permanent lawns in their respective growth

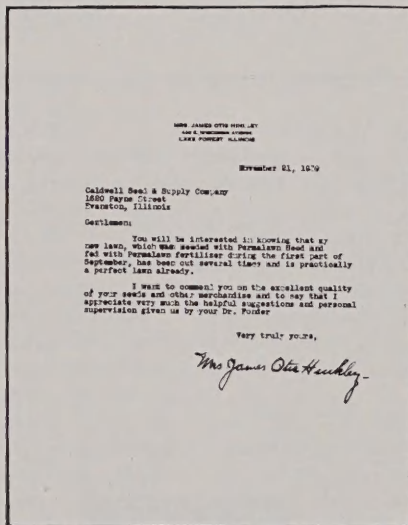
situations. For your protection, only heavy, mature seeds of highest purity and germination, and lowest weed seed content are used in blending Permalawn Seeds.

**PERMALAWN SUNNY:** Produces a most beautiful, velvety, permanent lawn. (If desired without Astoria Bent, so specify). 1 lb., 55c; 5 lbs., \$2.75; 10 lbs., \$5.40; 25 lbs., \$13.00; 50 lbs., \$25.50; 100 lbs., \$50.00.

**PERMALAWN SEMI-SHADY:** A combination of the Permalawn Sunny and Shady formulae.

1 lb., 70c; 5 lbs., \$3.50; 10 lbs., \$6.90; 25 lbs., \$17.00; 50 lbs., \$33.00; 100 lbs., \$65.00.

**PERMALAWN SHADY:** Contains 60 per cent of Chewing's Fescue and Poa trivialis combined. 1 lb., 75c; 5 lbs., \$3.75; 10 lbs., \$7.40; 25 lbs., \$18.25; 50 lbs., \$35.50; 100 lbs., \$70.00.



**Permalawn Service**

We offer our patrons the most complete and effective Lawn Service available.

# RESULTS PROVE ECONOMY





# Superior LAWN SEEDS

## WHERE TO USE

### Sunny Seed:

Areas in full sunlight.  
Areas in sun at high noon.

### Semi-Shady Seed:

Areas in full morning sun.  
Areas in light shade.

### Shady Seed:

Areas in moderate shade.  
Areas in early morning and late afternoon sun.

*A beautiful lawn does not just happen—it is made with good seed and years of proper care.*

## GOOD VENTILATION IMPORTANT

Lawn grasses grow better in extensive areas where the air has an opportunity to move freely across them than in restricted and poorly ventilated locations. To wall in a lawn area or plant a heavy screening border of shrubs, which frequently reaches to the bottom branches of an already existing circle of trees, is to shut out the beneficial air currents which dry the grass of dew before the heat of day and aid in proper cooling of the plants. Under such conditions a general weakening of the grass may always be expected and in very hot and humid periods during the summer it is usual for damage due to overheating, scald, brown patch, and leaf spot to be much more severe than in areas where ventilation is not interfered with.

## A WISE PRECAUTION

The incorporation of the correct Permalawn Plant Food in the seed bed before sowing will cause the young plants to grow vigorously and lessen the danger of damage from heat for the spring seeding and of winter injury for the fall seeding. This simple precaution may mean the difference between success and failure.

## SEED LIGHTLY

It is better to sow too little seed than too much, with its resultant crowding-out of the desirable turf grasses. Permalawn Seeds should be seeded at the rate of 4 pounds per 1000 square feet in sunny areas, 5 pounds per 1000 square feet in semi-shady areas, and 6 pounds per 1000 square feet in shady areas.

## QUALITY LAWN SEEDS

Permalawn Superior Lawn Seeds — See opposite page.

**CALDWELL QUALITY LAWN SEED:** Second in quality to **Permalawn** but superior to the so-called "quality" seeds usually offered at about the same prices. These blends are of an excellent grade and are recommended where the superior quality of **Permalawn** is not essential.

### Caldwell Sunnyslawn:

1 lb., 50c; 5 lbs., \$2.40; 10 lbs., \$4.70; 25 lbs., \$11.75; 50 lbs., \$22.00; 100 lbs., \$44.00

### Caldwell Shadylawn:

1 lb., 60c; 5 lbs., \$2.90; 10 lbs., \$5.70; 25 lbs., \$14.00; 50 lbs., \$27.00; 100 lbs., \$54.00

**NORTH SHORE BRAND Lawn Seed:** Prepared from the same quality seeds as Caldwell Quality but contains Rye Grass as one of the nurse grasses. A good seed where a quicker cover is desired without sacrificing the future quality of the lawn.

### North Shore Sunny:

1 lb., 40c; 5 lbs., \$1.90; 10 lbs., \$3.70; 25 lbs., \$9.00; 50 lbs., \$17.50; 100 lbs., \$34.00

### North Shore Shady:

1 lb., 55c; 5 lbs., \$2.70; 10 lbs., \$5.30; 25 lbs., \$13.00; 50 lbs., \$25.50; 100 lbs., \$50.00

**SUNNY LANDSCAPE**—Special mixture blended for landscape architect desiring a good grade of seed at a competitive price. This mixture will give quicker results, but will produce good permanent lawns. 1 lb., 30c; 10 lbs., \$2.90; 25 lbs., \$7.00; 50 lbs., \$13.00; 100 lbs., \$25.00

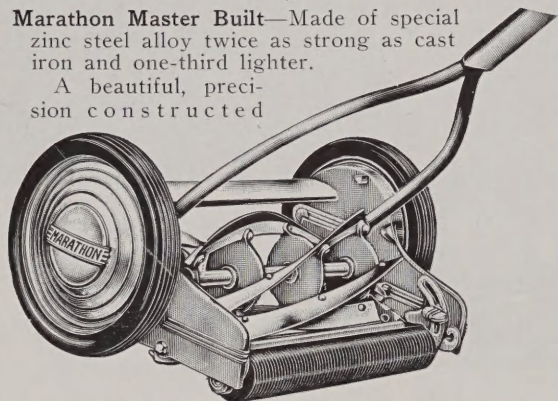


# Good Mowers Make Better Lawns

ALL STEEL — PRECISION BUILT — NOISELESS MOWERS ARE BEST

**Marathon Master Built**—Made of special zinc steel alloy twice as strong as cast iron and one-third lighter.

A beautiful, precision constructed

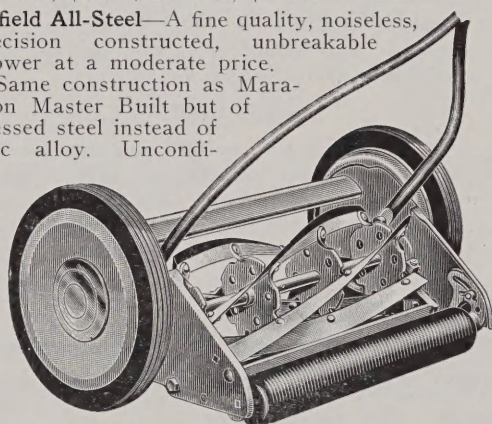


mower of finest quality, unconditionally guaranteed by the manufacturer.

Puncture proof pneumatic tires; large size rubber covered, ball bearing roller; simple finger adjustment; tubular steel, chromium plated handle with rubber grips; self adjusting ball bearings; die cast noiseless zinc alloy gears. 16 inch, \$18.75; 18 inch, \$19.95.

**Sheffield All-Steel**—A fine quality, noiseless, precision constructed, unbreakable mower at a moderate price.

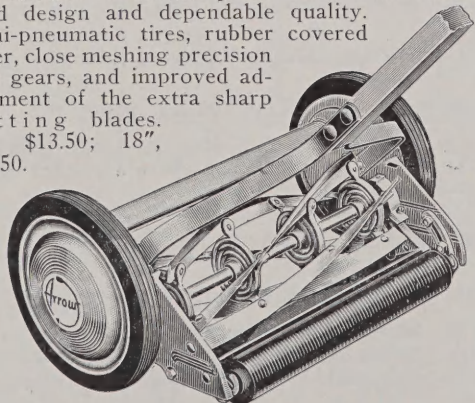
Same construction as Marathon Master Built but of pressed steel instead of zinc alloy. Uncondi-



tionally guaranteed by the manufacturer. 16 inch, \$15.75; 18 inch, \$16.50.

**Arrow Mower**—A modest priced mower of streamlined design and dependable quality. Semi-pneumatic tires, rubber covered roller, close meshing precision cast gears, and improved adjustment of the extra sharp cutting blades.

16", \$13.50; 18", \$14.50.

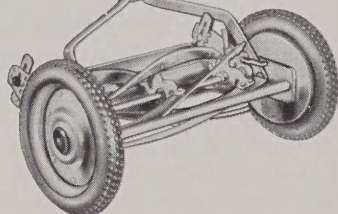


**Johnston Noiseless all Steel Hand Mower**—An exceptionally fine hand mower of all steel and absolutely noiseless construction. The unusual gear construction makes possible the greatest ease of operation and longest life. The five blade reel of finest tool steel and the hardened steel bed knife are carefully machined to cut perfectly and to remain in proper adjustment. The simplified but positive knife adjustment can be made quickly



**Johnston Noiseless**

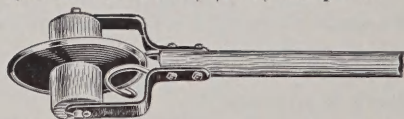
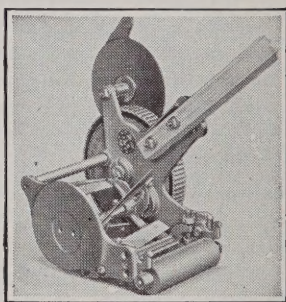
**All Steel Mower**



with no other tool than a nail. Rigid frame construction absolutely prevents the cutter units getting out of line. Fully guaranteed for 5 years by the manufacturer. Prices, 16 inch, \$17.50; 18 inch, \$18.00; 20 inch, \$19.50.

**Pennsylvania Trimmer and Edger** —

A time and labor saving machine which simplifies the trimming of grass borders and lawn edges. The steel disc is a powerful edging tool when the machine is turned over. Trimming width, 6 inches. Price, \$9.95, complete.



**Pines Edger**—The handiest type of lawn edger and turf cutter. Easy of operation. Each, \$1.50.

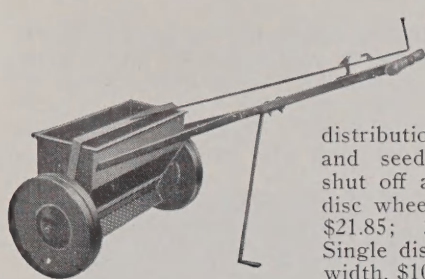
**Simplex Grass Catcher**—Made of heavy canvas sides and galvanized iron bottom. No. 1 for 14"-16" mowers, \$1.25; No. 2, for 18"-20" mowers, \$1.50.

## PROPER CLIPPING

The lawn should be cut high ( $1\frac{1}{4}$  to  $1\frac{1}{2}$  inches) throughout the year and should be cut frequently to prevent its getting too long. Good mowing equipment of ample capacity is essential.

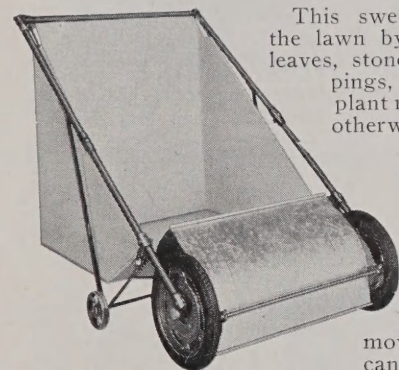


## THREE ESSENTIALS FOR A GOOD LAWN



**Permalawn Master Spreader** — Strongly built spreader for the even and rapid distribution of plant food and seed. Regulator and shut off at handle. Double disc wheels—36 inch width, \$21.85; 24 inch, \$15.00; Single disc wheels—18 inch width, \$10.35; 16 inch, \$7.00.

## THE SPRINGFIELD SWEEPER



This sweeper beautifies the lawn by removing all leaves, stones, twigs, clippings, and loose plant materials which otherwise would bury or become imbedded in the turf and cause damage. It operates with a soft, easy whirling, sweeping movement which cannot injure the

turf. The 15 inch diameter wheels make it as easy to operate as a lawn mower and the large capacity hopper is easily and quickly removed for emptying.

36" with pneumatic tires.....	\$ 55.00
28" with semi-pneumatic tires.....	44.00
28" with steel wheels .....	39.00
22" with semi-pneumatic tires.....	30.00
36" Power, Briggs & Stratton Engine....	145.00

## SPIKE DISC

The spike disc is a very efficient machine in lawn maintenance and construction. The spike disc should be used in preparing thin and bare areas for reseedling, thus usually eliminating the need for top dressing soil. The spike disc also pulverizes newly spaded areas quickly and thoroughly.

The main lawn areas should be spiked several times a year and the Spike Disc will be found a most important aid in growing grass under trees. No. 30, 18 in. spiking width, as shown, \$30.00.

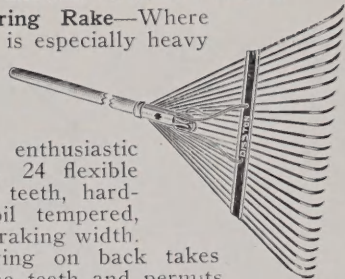


No. 32 — 18 in., same as No. 30 with two handles,	\$33.00
No. 25 — 14 in. spiking width,	\$21.00
No. 22 — 10 in. spiking width,	

\$16.50. No. 18, Power Mower Model, 22½", \$60.50.

## AN EXCEPTIONAL RAKE

**Disston Spring Rake**—Where rake duty is especially heavy the Disston Spring Rake



meets with enthusiastic approval. 24 flexible spring steel teeth, hardened and oil tempered, with 22 inch raking width. Flexible spring on back takes stress off the teeth and permits great strength with light construction. Recommended especially to the park superintendent and landscape contractor, as well as to estates and smaller homes. Each, \$1.75.

## RICH VELVETY LAWNS



A proportioner for the application of soluble plant foods, brown patch fungicides, weed killers, and the like. Fits on the faucet or between two lengths of garden hose and delivers material, safely

diluted, at ordinary pressures above 20 pounds. Only \$1.00, Postpaid.

## Bendix Mowerake

Is made in two widths only—No. 14

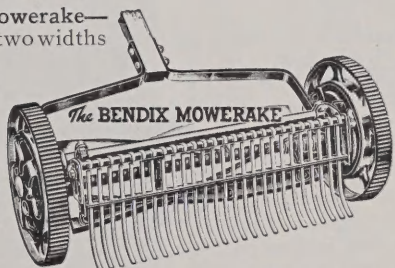
fits 15 in., 16 in., 17 in.

mowers — \$1.85. No. 18

fits 18 in., 19 in., 20 in.

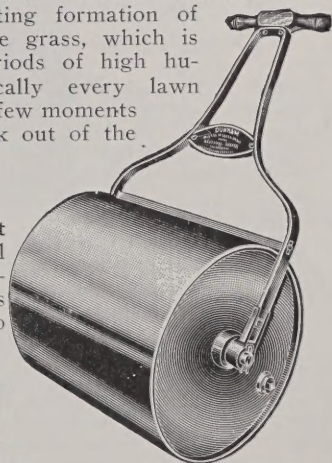
mowers — \$2.00. Assures

perfect grass trimming, protects mower blades from sticks, stones, etc. Eradicates weeds and crabgrass by preventing formation of seeds and aerates the grass, which is important during periods of high humidity. Fits practically every lawn mower—takes only a few moments to install. Folds back out of the way when not in use.



## Dunham Waterweight

**Roller** — Steel handles, roller bearings; rounded edges prevent damage to turf.



No.	Dia.	Len.	Price
5	18"	24"	\$13.50
7	24"	24"	15.95
9	24"	32"	18.95

In general the roller should be completely filled with water and an area rolled only once or twice. Heavy rolling compacts the soil to a greater depth whereas light rolling will over pack or even puddle the surface layer of soil if the area is gone over several times. A medium moisture content in the soil is desirable, a too wet soil tending to puddle easily and a too dry soil not responding to the weight of the roller.



## GARDEN HOSE

**Goodrich Garden Hose**, the highest quality garden hose, is strongly constructed to stand abuse and give years of service. It is made of new, light resisting rubber which withstands summer sunshine. It costs but little more to obtain Goodrich quality.

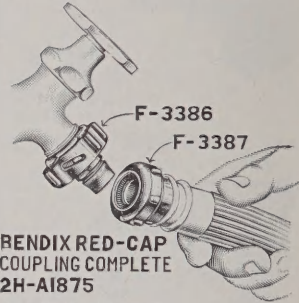


**Garden Club**—A light hose designed especially for the lady gardener.  $\frac{5}{8}$  inch—50 ft., \$5.75; 100 ft., \$11.25. Green only.

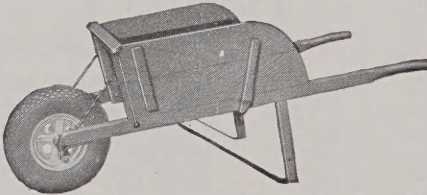
**Maxecon**—Medium weight but sturdy and durable. Known as the 10 year hose.  $\frac{5}{8}$  inch—50 ft., \$6.75; 100 ft., \$13.25;  $\frac{3}{4}$  inch—50 ft., \$7.35; 100 ft., \$13.80. Green only.

**De Luxe**—Estate Special. Made for years of hard usage on estate and golf course.  $\frac{3}{4}$  inch—50 ft., \$11.45; 100 ft., \$22.90. Green only.

**Bendix Red Cap Coupling**—Rapid hose coupling, a snap and the hose is connected, a twist and it is off. Saves time and prevents kinking of hose. Guaranteed not to leak. Complete, 60c; hose end, 35c; faucet end, 25c.



**Garden Wheelbarrow**, De Luxe Special — Strongly constructed with body of wood; sides removable. Pneumatic tire makes possible handling larger loads more easily, especially on rough ground. Price, \$16.00.



### MASTER HANDI-CART

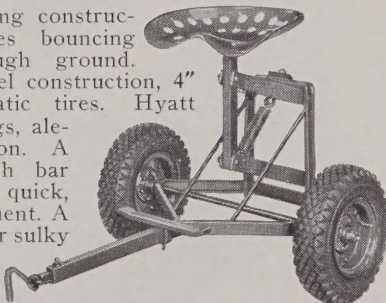
Easier to Use Than a Wheelbarrow

Handles all hauling jobs of garden, lawn, and home. Sturdily supported body, disc wheels, semi-pneumatic, puncture proof tires. No. 1, (2 cu. ft.) \$6.25. No. 2, (3 cu. ft.) \$8.25 (With solid rubber tires, deduct \$1.50)

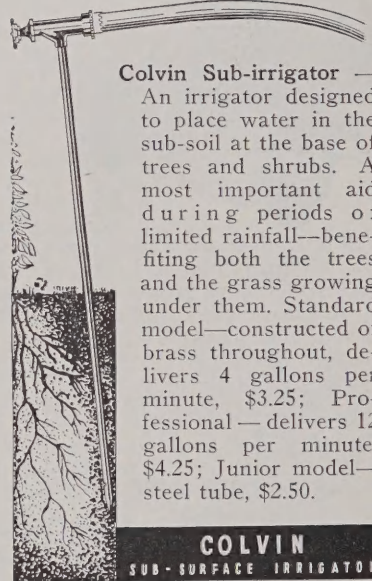


### FLOATING-RIDE SULKY

Special spring construction eliminates bouncing even on rough ground. Fabricated steel construction, 4" x 7" pneumatic tires. Hyatt Roller Bearings, alomite lubrication. A special pinch bar hitch provides quick, secure attachment. A definitely better sulky at a moderate price.

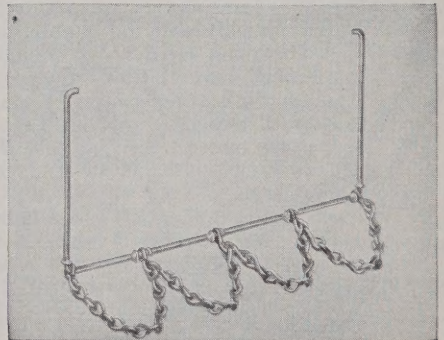


Delivered, with hitch for your mower, \$35.00.



### Colvin Sub-irrigator —

An irrigator designed to place water in the sub-soil at the base of trees and shrubs. A most important aid during periods of limited rainfall—benefiting both the trees and the grass growing under them. Standard model—constructed of brass throughout, delivers 4 gallons per minute, \$3.25; Professional—delivers 12 gallons per minute, \$4.25; Junior model—steel tube, \$2.50.

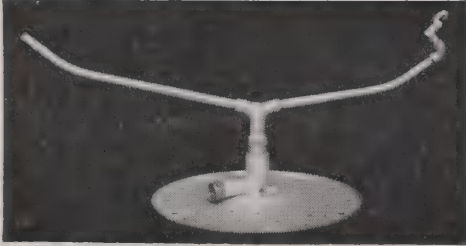


**Master Chain Attachment**—Attaches to the Permalawn Master spreader to brush plant food from blades of grass. Simplifies the application of soluble plant food by eliminating the principal cause of "burn". For 18" spreader, \$1.00; 24", \$1.25; 36", \$1.50.



## PERFECTION SPRINKLERS

Perfection Sprinklers are so simple in design and operation that they give years of service without wear or replacement. There are no gears to wear out and the revolving parts are cushioned with a film of water during operation. Perfection sprinklers give the largest coverage at the lowest cost and operate efficiently on very low pressure, giving service during dry periods when failure would be most damaging. The disc bases on Perfections permit them to be moved over the lawn from any angle without the slightest damage to the lawn.



**No. Y-15**, \$12.50. For  $\frac{3}{4}$ " hose. Covers up to 110 ft. diameter at 35 lb. pressure.

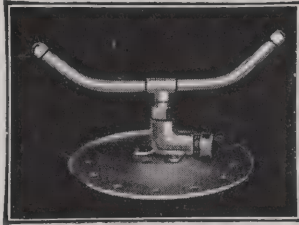
**No. 112**, \$10.50. Any hose size. Covers 85-100 ft. diameter at 20-35 lb. pressure.

**No. T-12**, \$8.00. Covers 75-85 ft. diameter at 15-25 lb. pressure.

**No. T-9**, \$7.50. Covers 65-75 ft. diameter at 10-25 lb. pressure.

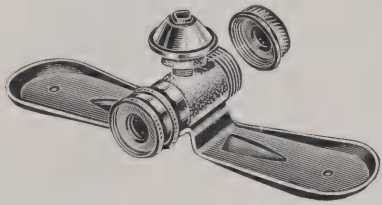
**No. H D**, \$4.50. Covers 20-50 ft. circle at pressures of 10-15 lb.

**No. H D., Jr.**, \$3.00. Covers 15-30 ft. circle at low pressure.



### "Allen Square"

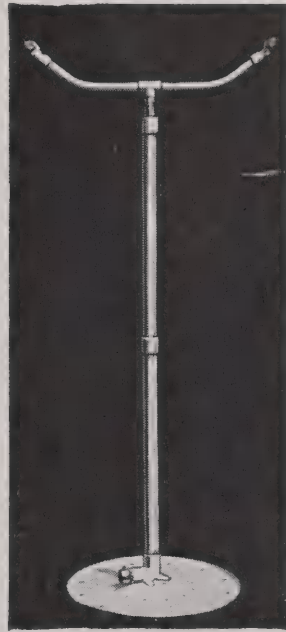
Adjustable Multiple sprinklers distributing fine spray in square. Set 12 ft. apart there is no over-lapping. Adjustable.



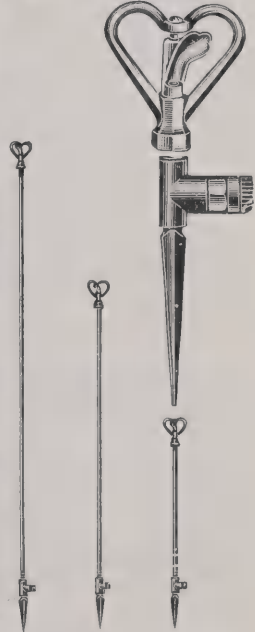
to water pressure. Each, 90c, Doz., \$9.50.



A Perfection Sprinkler In Action.



**No. GS**, Garden Special, \$10.00. For gardens, shrubbery, etc. Covers 65-75 ft. diameter at 15-25 lb. pressure.



**Hartford Sprinklers** (Blake Heads). 4 ft. length, \$2.00; 6 ft. length, \$2.25. Blake Heads, each, 60c.

### HOW TO SPRINKLE

The manner of sprinkling the lawn has much to do with its general condition. Sprinkling should be done only when needed to keep the grass from turning brown and then it should be thorough. Set the sprinklers for an hour or more in each location, depending upon the discharge capacity and the texture of the soil, until the soil is soaked to a depth of several inches. Generally it is not advisable to hand sprinkle the established lawn because the patience of the operator is usually too limited to permit the application of sufficient water and the development of shallow roots will result. After soaking the soil allow it to dry out to a depth of about  $\frac{1}{2}$  inch before applying water again



**Spray Wave Oscillating Sprinkler**—2 ft. long. Sprinkles square area 40' x 40' at low pressure. Runner base will not injure lawn. Each, \$17.50.

**Rain Wave**—Sprinkles square area 50' x 50'. Each, \$35.00.



## SHEARS

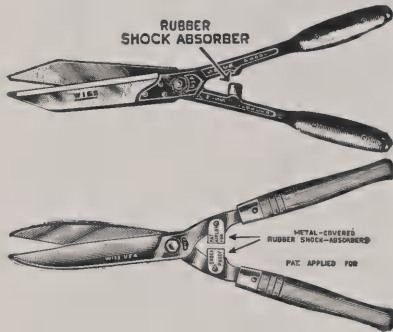
### HEDGE SHEARS



**Electric Hedgeshear**—A high speed sickle type electric hedge trimmer, in which the conventional sickle is replaced by an endless chain bearing special cutting teeth. Cuts on both edges of bar. More powerful, quieter, vibrationless, and will not clog. Weighs less than 6 pounds and all weight is balanced under the hand. Price,—\$29.50.

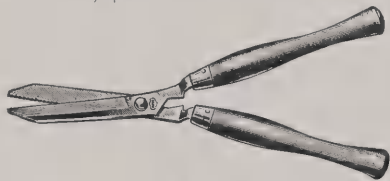
**Simplicity Hedge Trimmer**—A rapid hand trimmer; 12 inch width with plain teeth, \$4.50;; 16 inch, notched teeth, \$5.50.

**Wiss All Steel**—Patented shock absorber eliminates noise and jar from trimming. Well balanced shears with blades of fine cutting steel; one blade serrated. 9 inch blade, \$3.50. (See below.)



**Wiss English Pattern Shock-Proof Shear**—A new style of light hedge shear with improved metal covered shock absorbers. Blades of finest steel

and handles of non-splitting wood. 8½ inch blades, \$3.10.



**Wiss Ladies Model**—Full-forged steel, hardened and tempered. Light weight.

Length of blade, 6½ inches. Each, \$1.65.



**Flower-Holder Shears**—Cut and hold roses and other flowers direct from bush without crushing stems. Heavy nickle finish. Each, \$1.50.

### GRASS SHEARS



**Wiss Clipper Shears**—A better made,

more durable shear of the clipper design, Narrow blades, braced and bolted for greater strength. Equipped with adjusting nuts and swinging shackle, permitting blades to be sharpened. 12 inch, \$1.25.



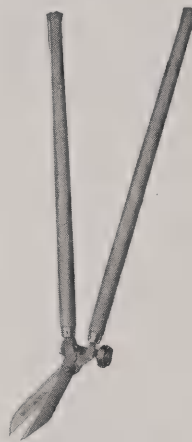
**Wiss Full Forged Grass Shear**—

The only full forged grass shear made. Drop forged from cutlery steel, practically unbreakable. Handles rubber covered for more comfortable operation. 12 inch, \$1.50.



**Wiss Off-set Grass Shear**—Heavier than above. Hollow

ground cutlery steel blades. Handle off-set to prevent striking knuckles on walls or pavement. 12½ inch, \$1.50.



**Grass Whip**

—A long handled grass and weed cutter for use on borders and among shrubs. Swing like

a golf club. Made of fine steel, blade sharpened on both edges. Each, \$1.25.

**Disston Border Shears**—A nine

inch hedge shear mounted on 2-wheel carriage. Handles 36 inches. Makes border trimming easy and rapid. Each, \$4.90.

**No. 3 Grass Hook**—

Small hand scythe with offset handle which prevents bruising hand. Blade of polished steel.



Each, 75c.



**All-Aluminum Trowel and Transplanting Tool**—50c each.



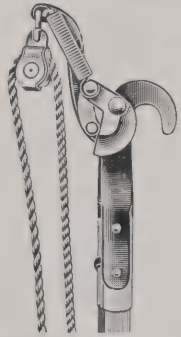
## PROFESSIONAL PRUNERS

**H. K. Porter Pole Pruners**—Porter Pole Pruners were developed to meet the needs of commercial users of such tools for tree trimming on a large scale. These pruners are ruggedly designed to eliminate annoying replacements so common to ordinary tools. Because both blades are sharp, very close cuts are possible, permitting quicker healing. Light in weight, they may be used continuously with minimum fatigue. The round, basswood poles are 15/16 inches in diameter, polished and varnished. This is truly a quality tool. Pole Pruner, complete with one pulley, 10 ft., \$6.75; 12 ft., \$7.00. Head only, \$4.25; Pulley, 25c; Pole, 12 ft., \$1.95; Rope, woven cotton, no center filler, 15 ft., 50c; 100 ft. hank, \$2.00.



### Seymour Smith Improved Telephone Pruner Head

—A new and improved design of pruner head with greater cutting power and strength. The greatly improved spring action is revolutionary in design and, combined with the chain pulley unit which eliminates rope wear and breaking, gives unusual easy and quick action. No. 12 cuts 1½ inch branches, \$5.00 each. No. 11, cuts 1 inch branches, \$2.20 each.



### Bartlett No. I-W Tree Trimmer

—Embodies the compound lever principle, plus one pulley which makes it an unusually powerful cutting unit. Handles 1¼ inches cuts with very little pulling effort. Light weight, head only weighing 1¼ pounds. Complete with 10 ft. octagonal pole, \$7.10; with 12 ft. pole, \$7.40. Four foot pole sections complete, \$2.50 each. Head only, with one pulley, \$4.00.

**Clyde Pole Pruner**—Light pole pruner for the small grounds. 8 ft., \$1.75; 10 ft., \$2.00; 12 ft., \$2.25.

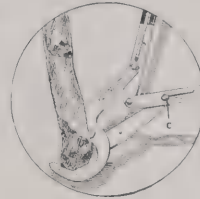


**Professional Pruner** — (Right) Special design for easy cutting. Hardened cutlery blades. Coil spring; full polished; 9 inch, \$4.25.

**California Pruner** — (Left) Unequaled in medium price pruners. Extra thin hammer forged cutlery steel blades with wide bevel for easier cutting. Coil spring. Full polish finish. 9 inch, \$3.00.



**H. K. Porter Forester Point Cut Pruner**—A heavy duty pruner of



finest quality, designed to cut large branches in the throat and small branches at the extreme point. The patented Power-Slot multiple leverage principle permits increasing the leverage up to 100 percent by merely slipping the handles into the successive slots.

The two sharp blades cut close and the spur on the hooked blade prevents springing or crossing. This is a tool for hard use and long life and will be appreciated because it is so compact for the power it delivers. 24 inch length, \$5.10; 20 inch length, \$5.00.

**Seymour Smith Professional Pruner**—A light



weight, perfectly balanced all-steel pruner that cuts easily and clean, clear to points of cutting blades. So designed that it makes close cuts without stubs, that will heal over quickly. Special alloy steel forgings carefully tempered and ground to keen, lasting cutting edges. Fitted with large, comfortable, hardwood handle grips. Length 24 inches overall, weight 2¾ pounds. Each—\$3.50.

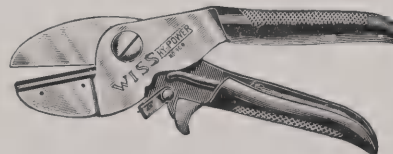
**Porter Twin Cut Pruner Shear**—The point cut



principal embodied in an American shear of finest quality. The

two sharp blades cut close and clean with minimum pressure at the handles and, because of draw cut design, cut as effectively at point as in the throat, Length, 8¾ inches. Price, \$3.75

**Smith Professional**—An unusually fine quality one-piece drop forged steel pruner of most approved design. Especially recommended for shrub, orchard and light, fast pruning or for the lady gardener. Preferred by professional men because it is small and light but stands heavy use. Length, 8 inches. Each, \$2.50.



**Hy-Power Hand Pruner**

The easiest cutting pruner of its size. A new effortless cutting

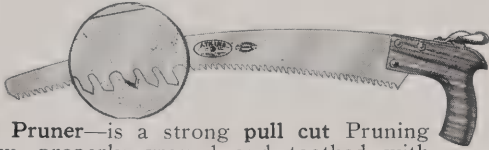
action that simplifies pruning. Of finest steel, nickel finished. Length 8 inches. \$2.00 each.

**Hy-Power Jr.**—Same design as above but smaller and of gun metal finish. 6 inch, \$1.35.

## PRUNING SAWS

Roberts Speed and Atkins Silver Steel

Roberts Speed saws have a new style of tooth which has been responsible for vastly increased speed in cutting green, dry, or soft wood. The teeth are grouped with two slicers and one planer tooth to each section. This tooth design permits fast, easy, and **smooth** sawing. Marked TR.



**TR2 Pruner**—is a strong pull cut Pruning Saw, properly ground and toothed with the right pitch, on curved blade. Pistol grip lacquered beech handle can be used with heavy mittens. Length, 24 inches. With snap—\$4.15; without snap—\$3.75.

### TR 2-14 Pruner

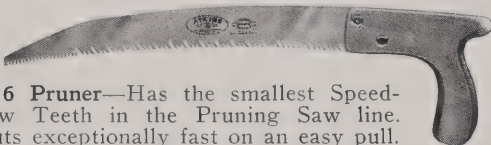
Same as the TR 2 except has the popular closed pattern handle. Preferred by utilities and tree surgeons everywhere. Length, 24 inches. With snap—\$4.15; without snap—\$3.75.



**TR 5 Pruner**—Has the proper curve for fast, easy pull cut, speed teeth suitable for large or small limbs. Large closed grip handle of seasoned beech, has plenty of hand room for gloves. Length, 30 inches—\$4.25.

### TR 1 All Purpose Saw

Properly pitched Roberts Speedsaw teeth for easy and fast pull cut stroke. This blade is used with pole pruner. Quick detachable pistol grip handle. Length, 16 inches. With snap—\$3.15; without snap—\$2.75.



**TR 6 Pruner**—Has the smallest Speed-saw Teeth in the Pruning Saw line. Cuts exceptionally fast on an easy pull. Point has a 3 inch section of 8 point peg teeth for starting cut. Well shaped, pistol grip. **Suggested as best for general use.** Length 12 inches, \$2.25.



**No. 17 Forester Pruner**—Made of genuine Silver Steel, 1½ inches wide at point, 3½ inches wide at butt. Blade is very stiff and will not bind. Extra large peg teeth. New style kiln dried beech handle highly lacquered. Length, 26 inches—\$2.55.



**Atkins No. 16 Pole Tree Pruner**—Made of genuine Silver Steel fitted with peg teeth. Blade adjustable to cut at any angle. Length, 16 inches. Blade only, \$1.75; complete with Twigger head (see page 13), \$3.00.

### TR 8 All Purpose Pruner

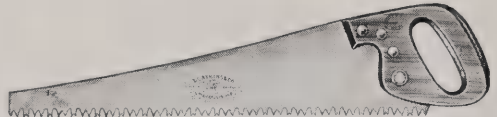
—Skew back, hand saw type. Makes an excellent rip saw.



New style, seasoned beech handle, clear lacquered. Users can wear gloves and have firm hold. Made in 26 inch length only. With snap, \$5.15; without snap, \$4.75.



**Atkins No. 41 Pruning Saw**—Atkins newest pruning saw. Silver steel. Skew back. Ground 18 x 21 gauge thin back. A six-point hand saw tooth with wide set. Bevel filed. 26 inch length only—\$4.15.

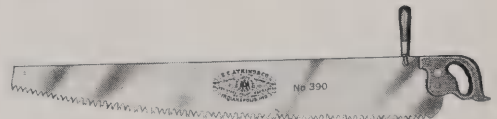


**Atkins No. 40 Tuttle Tooth Pruner**—Made of high grade special steel, tuttle tooth pattern. Has extra sharp teeth that hold their edge longer due to their extra fine temper. Extra large and roomy, kiln dried beech handle. Length, 20 inches—\$2.85; 24 inches—\$3.40.

### TR 153 One Man Speedsaw



Will save sawing time. Straight back, slight breast. Large beech handle, orange trimmed on edge, carved grip, sanded sides. Permits gloves to be worn. 2½ foot, \$4.95; 3½ foot, \$6.60; 4 foot, \$7.45.

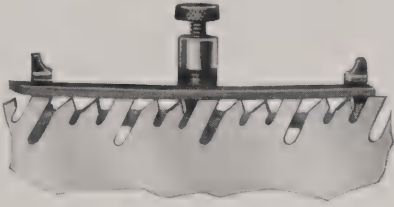


**Atkins No. 390 One Man Saw**—Has wood saw tuttle teeth, properly filed and set, and is fitted with an extra large and roomy grip beech handle. Length, 2½ feet—\$2.75; 3 feet—\$3.25; 3½ feet—\$3.80; 4 feet—\$4.25.

**1. Atkins No. 550 Silver Steel Cross Cut Saw**—For general purpose, including hard wood. Blade 14 x 18 x 16 gauge; extra large tooth and raker gullets enable saw to run fast, free, and easy, without binding in the cut. 5½ ft., \$8.92; 6 ft., \$10.42.



## SAW ACCESSORIES

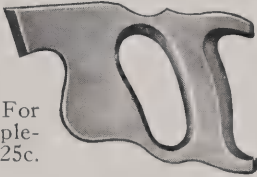


**Jointer for Roberts Speed Saws.** Designed especially for Speed Saws but can be used on all concave, convex, and straight breasted saws by merely adjusting screw. For hand and pruning saws, each, 90c; for cross cut saws, each, \$1.65.

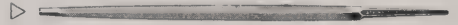
**Quick Release Snap—**For Roberts Speed Saws and other tools commonly carried on the belt. Each, 35c.



**Saw Handles—**For Roberts Speed Saws. No. 2-14 and No. 5—65c; No. 1 and 8—60c; No. 2—55c; No. 153—50c. For Atkins Saws—35c; Supplementary for cross cut—25c.



**Atkins Safe Back Cant Saw File—**Silver Steel File made of the same high grade material as the Silver Steel Saws. Length, 6 inches—35c; dozen—\$3.95. For Roberts Speed Saws, 50c; per dozen—\$5.40.



**Atkins Slim Taper Files—**Made from genuine Silver Steel and are recommended for use in refitting Atkins Pruning Saws. Length, 6 inches—30c each; dozen—\$2.45. For Roberts Speed Saws, 35c; per dozen—\$3.10.

### Swan Ratchet Auger Handle



A valuable tool for drilling in close crotches and under limbs, as both handles are removable. Handles of hardwood reinforced with a steel bolt. Steel center. Fifteen inches long. Each \$4.00.

**Swan Auger Handle—**Same as above but without ratchet. Both handles removable. Each, \$1.85.



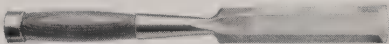
**Cavity Slicks—**Oval and Taper Spoons—Necessary to the proper finishing of cavity fillings. Width, 1 inch, 86c; 1½ inch, \$1.12.

## GREENLEE TOOLS

### Tree Surgeon's Socket Chisels and Socket Gouges

To meet the severe requirements of chisels for tree surgery the blade and socket of these chisels are made from one piece of high grade alloy steel, with the upper section of the blade and the socket being extra heavy. Handle of hickory with turned steel ferrule.

#### Chisels



¾ inch—\$2.25

1½ inches—\$3.00

#### Gouges



¾ inch—\$2.50

1½ inches—\$3.25

Extra handles, 25c each

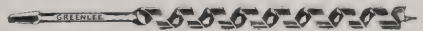
#### Bit Extensions



The positive lock prevents loosening of the holding sleeve, insuring absolute grip on the shank at all times. These extensions are so designed that they will drive a bit up to 1 inch in diameter and yet follow a ⅝ inch bit.

18 inch length —\$2.25    24 inch length —\$2.40

### Tree Rod Bits



Especially designed for tree surgery, these bits are made from very tough alloy material and are heat treated full length for greater strength. The single-spiral twist provides best chip clearance. These bits are perfectly finished and highly polished and should not be confused with poorer quality bits that sell at a lower price.

12 inch twist	24 inch twist
18 inch length	30 inch length
7/16 inch ..... \$1.45	9/16 inch ..... \$2.80
9/16 inch ..... 1.60	11/16 inch ..... 3.36
11/16 inch ..... 1.75	13/16 inch ..... 3.90
13/16 inch ..... 2.25	

**Extension Bits.** Above 12 inch twist bits with stiff steel square shanks. Total length 36 inches, add 65 cents to above prices. For extra lengths add 15c per foot.

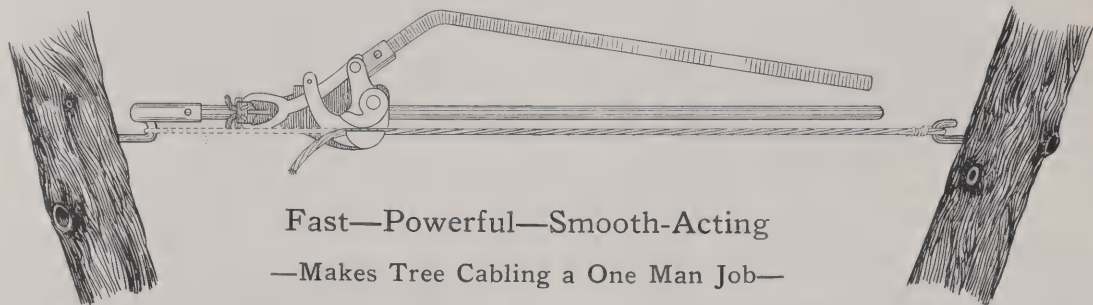
### Solid Center Auger Bits



Double cutter head with two extension lips, solid center and single special twist. These bits are perfectly finished, highly polished, and of finest quality.

3/16 inch ..... 40c	5/16 inch ..... 35c
4/16 inch ..... 35c	7/16 inch ..... 40c

## ROPE AND CABLE PULLER



**Fast—Powerful—Smooth-Acting**

**—Makes Tree Cabling a One Man Job—**

Constructed entirely of steel, with no ropes to wear or break. All "take-up" is effected by a simple, easy movement of the lever handle.

**For Heavy Pulling Jobs**

Grip capacity  $\frac{1}{2}$  inch cable. Price, \$14.00 complete.

A PERMALAWN PRODUCT

## Announcing

### Dynamic LIQUI-FEEDER

Feed Lawns, Trees, Shrubs with the garden hose by

*Positive, Direct Pressure*

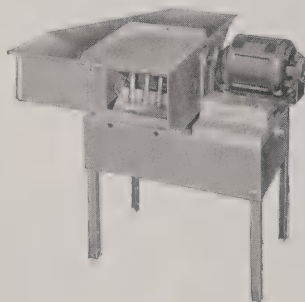
The Dynamic Liqui-Feeder does not depend on suction.

**INJECTS PLANT FOOD INTO SOIL FOR TREES AS READILY AS ON SURFACE FOR LAWNS.**

**A PERMALAWN PRODUCT**

*USE PERMALAWN SOLUBLE PLANT FOOD*

Price, complete, \$15.00



### WICHITA COMPOST GRINDER

Just what is needed for the better preparation of potting soil, top dressing materials, compost, and peat moss.

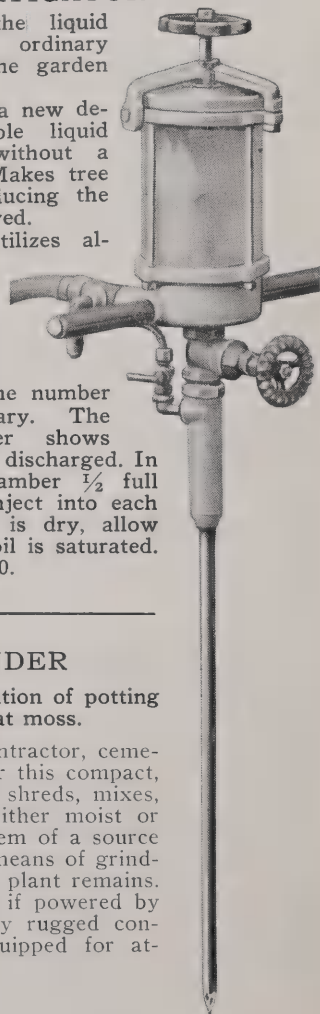
Every professional gardener, landscape contractor, cemetery, and golf course will find many uses for this compact, large capacity grinder, which grinds, chops, shreds, mixes, screens and piles soil or plant materials, either moist or dry. This machine will help solve the problem of a source of organic matter by providing an effective means of grinding compost prepared from leaves and other plant remains. Will handle all except very heavy, wet soil if powered by  $\frac{1}{2}$  HP motor. Light and compact but very rugged construction. Price, delivered, \$87.50 fully equipped for attaching motor. Motor extra.

### FERTIGATOR

Feed trees by the liquid method, using only ordinary city pressure and the garden hose.

The Fertigator is a new device making possible liquid feeding of trees without a power spray unit. Makes tree feeding easy by reducing the time and labor involved.

The Fertigator utilizes almost any fertilizing material but works especially well with Permalawn Soluble Tree Food because less plant food is required, reducing the number of charges necessary. The transparent chamber shows when the fertilizer is discharged. In feeding, fill the chamber  $\frac{1}{2}$  full of plant food and inject into each hole; if the season is dry, allow water to run until soil is saturated. Price complete, \$45.00.







# THE TWIGGER

*The Pole Saw Head that has everything!*

**A Precision Tool**  
- - hand finished  
**Price - \$1.40**

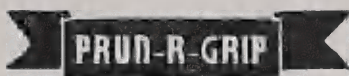
- A large curved hook that really hangs on.
- A small hook to remove twigs and suckers.
- A knife edge to complete the cut and prevent stripping of bark.
- A paint brush holder that works.
- A full size, slim tapered socket for greater strength.
- Malleable iron for strength and durability.

(Specify whether for Atkins  
or Diston Saw)

## A QUICKER, EASIER UNDERCUT

*"A quick forward thrust of the pole just as the branch breaks does the trick"*

# PRUN-R-GRIP *for Pole Pruners*



Makes the handling of the pole-pruner much easier - both hands are always on the pole.

Eliminates the lost motion necessary without it - the rope is always engaged ready for the pull.

Makes pulling the rope so much easier - the powerful leverage of the grip does it.

Reduces the danger of breaking the pole - because the pull is in line with the pole, bending is practically eliminated.

Reduces the danger of breaking or spreading the pruner head - better control over the pole prevents twisting.

Greatly increases speed of operator.



## ADAPTED TO ANY PRUNER POLE

The Prun-R-Grip is full  $1\frac{3}{8}$  inches inside diameter and fits loosely on all finished pruner poles. Rough poles should be sanded slightly to give freedom of movement and corners of square poles must be planed off  $\frac{1}{8}$  inch. **Price \$2.40**

**INCREASES THE EFFICIENCY OF THE TREE SURGEON**

# SAFE-T-SEAT

**MINIMIZES RISK -- ASSURES COMFORT -- SPEEDS UP WORK**

## Double Safety

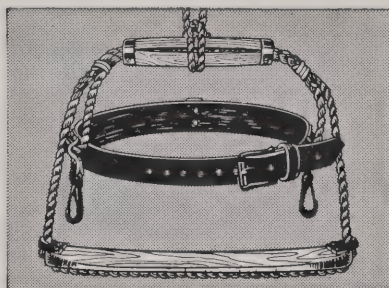
The Safe-T-Seat provides a rope around the waist and a second under the seat, each with an ample safety factor in case the other fails. The safety rope passes through both loops, making a complete system entirely of rope.

## Complete Comfort

The Safe-T-Seat can be worn comfortably all day. There are no slings encircling the legs to cut off circulation and no possibility of pinching. The spreader eliminates pressure of the rope against the legs.

## Four Sizes

The Safe-T-Seat is made in four sizes:- Small, Medium, Large, and Extra Large. Specify size when ordering.



## Construction

The seat and spreader are of special hardwood construction, shaped and finished smoothly. The rope is 1/2 inch New Bedford Maritime 3 strand Manila and the belt is of highest quality leather, with first grade snaps and buckles, riveted throughout. Weight 3 pounds.

**Price \$9.00**

## Freedom of Movement

The spreader bar prevents binding of the legs, giving complete freedom of movement in any direction. Spreader bar and seat fit closely to the body and do not interfere with climbing or movement among the branches. The balanced support given the body leaves both hands free at all times.

## Adjustable

The Safe-T-Seat must fit properly for fullest satisfaction. Move raw hide thongs at the sides toward spreader bar for a looser fit or away to hold seat and spreader snugly to the body.

## Parts Replaceable

Any part of the Safe-T-Seat can be replaced if it becomes worn or broken.

# PROTECTREE

## TREE PAINT

### Antiseptic - Fungicidal - Non-injurious

ProtectTree is an asphalt base paint with special antiseptic and fungicidal properties. It will not injure the cambium tissue and may be painted directly upon it. It is excellent as a cavity paint and for use on wet surfaces.

### Penetrating - Quick Drying - Lasting

ProtectTree penetrates well, dries quickly, and leaves a lasting protective coating; seals pruning cuts and tree wounds and promotes normal healing.

### An All Weather Paint

ProtectTree is treated to prevent freezing, providing an emulsified type paint which can be used in winter as well as in summer.

### For Small Cavities

ProtectTree may be used in filling small cavities by mixing it with fine sand to desired consistency. Smooths perfectly and sets quickly.

### Dilutable

ProtectTree is of the proper consistency but may be thinned with water if desired.

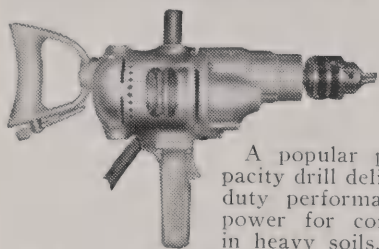
Prices: quart can, 60c; gallon pail, \$1.75; 5 gallon pail, \$7.50.





## ELECTRIC POWER DRILL

3/4 inch Black and Decker



For Faster —  
Easier — More  
Economical  
Tree Feeding

A popular priced, large capacity drill delivering real heavy duty performance with ample power for continuous drilling in heavy soils. Ruggedly constructed, with triple gear reduction for low spindle speed and plenty of torque. Motor mounted on ball bearings and chuck spindle on Timken tapered roller bearings. 155 RPM full load; 1 1/2 inch capacity in hardwood, wt., 19 1/4 lbs. Price, complete, \$68.00.

constructed, with triple gear reduction for low spindle speed and plenty of torque. Motor mounted on ball bearings and chuck spindle on Timken tapered roller bearings. 155 RPM full load; 1 1/2 inch capacity in hardwood, wt., 19 1/4 lbs. Price, complete, \$68.00.

For Greatest Efficiency

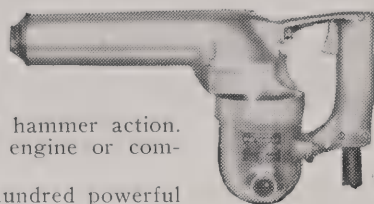
Equip Your Drill With Ferti-Drill Point

## ELECTRIC HAMMER

(Black and Decker)

Light Weight  
Compact

Speeds up any drilling or cutting operation requiring a hammer action. No bothersome engine or compressor.



Twenty-five hundred powerful blows per minute makes possible faster, easier preparation of cavities. Equipped with soil point this electric hammer provides an excellent means of preparing holes for tree feeding.

Complete catalog of hammer tools sent upon request.

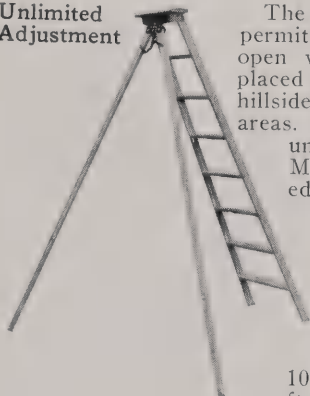
No. 32, weight 9 3/4 lbs., \$115.00.

No. 34, weight 17 lbs., \$145.00.

For More Efficient Tree Surgery

## ADJUSTABLE STEP LADDERS

Unlimited  
Adjustment

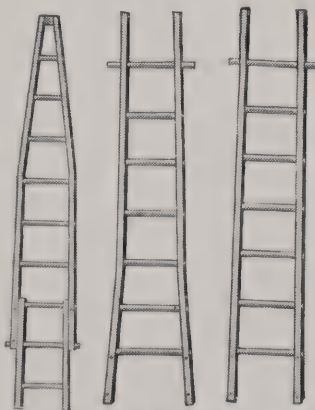


The patented construction permits the back legs to open wide and also to be placed at different levels on hillsides, stony, and uneven areas. Stands level and safe under all conditions. Made of rigidly inspected lumber, each step reinforced with metal drive braces and steel reinforcing rod. Costs no more than ordinary step ladders.

Specified by  
Highway Engineers

10 ft. length, \$9.00; 12 ft. length, \$12.00.

## TREE SURGEON'S SECTIONAL LADDER



Made Especially  
for the  
Tree Surgeon

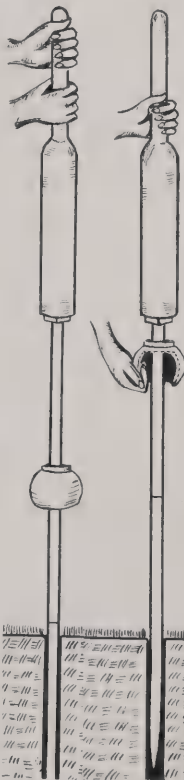
Sides of selected Sitka Spruce, ends reinforced with metal plates and safety bolts. Rungs of second growth hickory, straight grained, smoothly finished. Sections slip together securely and middle sections are interchangeable. Bottom and three middle sections may be used together, top section being optional. 8 ft. sections, \$8.00 each; 10 ft. sections, \$10.00 each.

10 ft. sections, \$10.00 each.

STRONG — LIGHT — SAFE

## TREE FEEDERS

**Adams Tree Feeding Bar** — A valuable and most effective aid in tree feeding. The handle is a sliding hammer which drives the bar down with great force. In very hard soils a hole can be made with eight to ten strokes. Since the bar does not move up and down in the hole, much less effort and time is required for preparing holes. Price, \$15.00.



## THE FERTI-DRILL

Specially designed soil drill for tree feeding with electric drill. Greatly increases the efficiency of the electric drill. Makes holes more easily, faster, and without mess. Of plow steel, fitted to 5/8 and 3/4 inch chucks. Each, \$3.00.

Equip Your Electric  
Drill  
with the  
Ferti-Drill Point!



## GREENLEE SOIL AUGER



Two inch auger bit fitted to 5/8 and 3/4 inch electric drills. 18 inch twist, 30 inches over all length, 3/4 inch shaft. Also available in 5 inch twist with handle for hand drilling. Each, \$3.50.





# Permalawn Plant Foods

# Provide Balanced Diets

SCIENTIFICALLY COMPOUNDED

## WHAT THEY ARE

Permalawn Plant Foods are carefully prepared in accordance with the best scientific principles and the most advanced methods. Quickly available plant food materials are combined with a vegetable meal to provide hungry plants with both an immediate and a longer lasting supply of food. Soluble iron, manganese, and the other trace elements make Permalawn a complete diet, now in granular form.

## FEEDING DEVELOPS FULL BEAUTY

A really fine lawn can be secured only if a scientifically correct feeding program is followed. Such a program enables the grasses to grow vigorously, causing the lawn to become thicker and more beautiful each year. A properly fed lawn becomes green earlier in the spring and remains so later in the fall, giving pleasure for a longer period each year.

## WHEN TO FEED

The lawn grasses usually grow vigorously only from early April to late June and from late August until late October, periods when weather conditions are most favorable. An abundance of plant food should be available during these periods to bring the food supply into balance with the favorable weather conditions.

The correct Permalawn Plant Food applied at the beginning of each of these growth periods, in the spring just after the grass starts growth and in the fall after the hottest part of the summer is past, will usually nourish the grass effectively to the end of the growth period. If feeding appears advisable during the summer, Permalawn Soluble Plant Food will be found excellent.

## PLANT FOOD BALANCE IMPORTANT

The fertilizer analysis used should be such that it will create the proper balance of plant food elements in the soil. In general, heavy soils require plant food higher in nitrogen than do sandy soils. But even on a heavy soil it is advisable to avoid the use of too high a proportion of nitrogen, which may force the top growth too greatly and produce a weak root system. If in doubt, ask for a soil analysis.

USERS LIKE  
PERMALAWN  
PRODUCTS  
THEY DO PRODUCE  
GOOD RESULTS

We believe ordinary fertilizers are worth the price asked for them and that they would be made better but for the extra cost involved. We feel this extra cost is justified in making Permalawn Plant Foods Better.

Permalawn Plant Food (5-10-6)—5% avail. nitrogen, 10% avail. phos., 6% avail. potash. A complete plant food of moderate balance for general use throughout the garden. Recommended especially for flowers and vegetables, either in the garden or greenhouse, and for lawns on light soils or in shaded, enclosed areas. Apply 30 to 40 pounds per 1000 square feet. 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.00; 2000 lbs., \$70.00.

Permalawn Plant Food (8-8-4)—8% avail. nitrogen, 8% avail. phos., 6% avail. potash. A complete plant food formulated especially for lawns. Recommended particularly for lawns on the heavier soils and in open areas where it produces excellent turf with a strong and vigorous root system. Apply 25 to 35 pounds per 1000 square feet. 25 lbs., \$1.75; 50 lbs., \$2.65; 100 lbs., \$4.25; 2000 lbs., \$75.00.

## TREE FEEDING

"The most important phase of tree care", Missouri Botanical Garden, Bul. No. 4, 1936

Feeding not only makes trees more beautiful but helps them in their fight against diseases, insects, prolonged periods of drought, and winter injury.

"The only occurrence of winter injury was with trees in extremely low nutritive condition and none occurred with late fertilization". N. C. Exp. Sta. Bul. No. 322.

Trees may be fed at any time during the year and fall feeding is as effective as that done in the spring.

"Fertilizer applied in the fall after the leaves had dropped produced a response in growth approximately equivalent to the same rates of application, in March—" N. C. Agri. Exp. Sta. Bul. No. 321.

"Trees require large amounts of food and cannot be overfed".—Missouri Botanical Garden Bul. No. 4, 1936.

10-8-6

**Permalawn Tree Food (10-8-6)**—10% avail. nitrogen, 8% avail. phos., 6% avail. potash. A complete plant food of the most widely approved analysis specially prepared to feed trees better. Permalawn Tree Food contains sufficient soluble iron, manganese, and the other trace elements to meet the requirements of trees except where bad cases of chlorosis exist, when additional soluble iron should be used. The organic matter in Permalawn Tree Food prevents the formation of the insoluble "plug" characteristic of ordinary tree foods. Allow 4 pounds per inch of diameter of tree trunk for small and medium sized trees and 6 pounds per inch of diameter for larger trees. 50 lbs., \$2.75; 100 lbs., \$4.50; 1000 lbs., \$42.50; 2000 lbs., \$80.00.

18-12-6

**Permalawn Soluble Plant Food (18-12-6)**—18% avail. nitrogen, 12% avail. phos., 6% avail. potash. A concentrated and completely soluble plant food prepared especially for the liquid feeding of trees, lawns and golf greens. Works perfectly in the power sprayer, Fertigator, or other liquid tree feeding device or through any suitable proportioner. Lawn feeding tests have demonstrated that this plant food is not only quick acting but it is also long lasting. For trees, dissolve 1 lb. per gallon of water and inject into the soil. 100 lbs., \$7.00; 500 lbs., \$34.00; 1000 lbs., \$60.00.

# PERMALAWN SUPERIOR

# PLANT FOODS

# PREFERRED WHERE RESULTS MEAN MOST

# Miscellaneous Fertilizers

**Adco**—For use in the compost pile to hasten rotting of leaves and other plant materials. 150 pounds makes 4 tons of rotted compost. 7½ lb. bag, \$1.00; 25 lb. bag, \$2.50; 150 lb. bag, \$11.50.

**Balanced Plant Ration** (5-8-7)—A balanced fertilizer composed chiefly of organic matter and potash which has long been popular in the garden. Use 35 to 40 pounds per 1000 sq. ft. 50 lbs., \$2.50; 100 lbs., \$4.10; 1000 lbs., \$37.00.

**Bone Meal**—Steamed regular. (2-27-0) 25 lbs., \$1.40; 50 lbs., \$2.35; 100 lbs., \$3.75; 500 lbs., \$16.50; 1 ton, \$63.00.

**Bone Meal**—Raw. (3¼-20-0) 100 lbs., \$4.15; 500 lbs., \$19.00; 1000 lbs., \$37.00; 2000 lbs., \$70.00.

**Bone Meal**—Rose Grower. (3¼-20-0). 100 lbs., \$4.15; 500 lbs., \$19.00; 1000 lbs., \$37.00; 2000 lbs., \$70.00.

**Blood and Bone Meal**—(8-20-0) Quicker acting and a better balance than bone meal. Contains 30 percent more nitrogen than ordinary Blood and Bone meal. 100 lbs., \$4.80; 500 lbs., \$23.00; 1000 lbs., \$42.00; 2000 lbs., \$78.00.

**Blood Meal**—(13½-0-0) Excellent source of organic nitrogen. 100 lbs., \$7.00; 500 lbs., \$33.00; 2000 lbs., \$130.00.

**Chicagrow**—(4½-2-0) Produced by the Chicago Sanitary District in its disposal of sewage. Apply 50 or more pounds per 1000 square feet. 100 lbs., \$2.20; 1000 lbs., \$16.00; 2000 lbs., \$31.00.

## DAHLIA FERTILIZERS

1. **Permalawn Plant Food** (5-10-6)—Except where tests show an abundance of nitrogen, this plant food will give excellent results. (See pages 24 and 25).

2. **Badger Brand** (0-20-10) (Same as 0-14-7 but more concentrated) — Recommended where soil contains enough nitrogen to produce full sized plants. (Test your soil) 100 lbs., \$3.25.

**Ferrous Sulfate**—Valuable for acidifying soil and also an important plant food. Better and safer to use than Aluminum Sulfate. 100 lbs., \$3.75; 500 lbs., \$17.00.

**Lawn Food**—Badger Brand Fairway (6-12-4). A special grade of plant food prepared for the feeding of golf fairways and large lawn areas where economy is essential. 100 lbs., \$3.50; 1000 lbs., \$33.00; 2000 lbs., \$64.00.

**Lawn Food**—Badger Brand (10-8-6). For golf greens and large lawn areas. This fertilizer is relatively dustless and granular and contains a substantial amount of organic and nitrate nitrogen. 100 lbs., \$3.75; 1000 lbs., \$35.00; 2000 lbs., \$68.00.

**Lime**—Agricultural (Ground Limestone). Finely divided and most desirable form of lime for correcting acidity. Will not make soil alkaline. 100 lbs., \$1.50; 500 lbs., \$5.00; 2000 lbs., \$13.50.\*

**Lime**—Hydrated. Stronger than ground limestone and quicker acting but liable to make soil alkaline if used in excess. 50 lbs., \$1.25; 100 lbs., \$2.00.

**Manure**—Pulverized cattle. (2-1-1) 100 lbs., \$2.50; 500 lbs., \$11.00; 1000 lbs., \$19.00; 2000 lbs., \$36.00.

**Manure**—Pulverized sheep. (2-1-2) 100 lbs., \$2.50; 500 lbs., \$11.00; 1000 lbs., \$19.00; 2000 lbs., \$36.00.

**Milorganite**—Organic material produced from city sewage by the Sewerage Commission of Milwaukee. Contains 6% total nitrogen and 2% phosphoric acid. 100 lbs., \$2.75; 1000 lbs., \$22.00; 2000 lbs., \$43.00.

**Muriate of Potash** (0-0-50)—50 lbs., \$2.50; 100 lbs., \$3.85; 500 lbs., \$17.50.

**Nitrate of Soda** (16-0-0)—50 lbs., \$2.50; 100 lbs., \$3.75; 200 lbs., \$7.00.

**Nitrophoska** (15-30-15)—A highly concentrated fertilizer useful for liquid feeding of plants. 25 lbs., \$3.00; 50 lbs., \$5.50.

**Peat Moss** — Imported. Peat moss is an important aid in better lawn making and should be incorporated in the soil around every newly planted tree and shrub to stimulate root growth. Whenever possible, peat moss should be moistened before incorporation in the soil. 22 bu. bale, \$4.50; 10 bales, \$42.00.

**Peat Moss**—Domestic. 11 bu. bag., \$2.25; 2 bags, \$4.00; 10 bags, \$19.00.

**Permalawn**—See pages 16 and 17.

**Soluble Plant Food**—See Permalawn Soluble Plant Food, page 16.

**Sulfate of Ammonia** (21-0-0)—Important source of quickly available nitrogen. Not recommended except in conjunction with carriers of other elements. 100 lbs., \$3.25; 1000 lbs., \$29.00.

**Sulfate of Iron**—See Ferrous Sulphate this page.

**Sulfate of Aluminum**—For acidifying soils. Apply 50 lbs. per 1000 sq. ft. and repeat as needed. 100 lbs., \$4.50.

**Sulfur**—Activated Soil Sulfur for acidifying soils. Oxidizes more quickly than ordinary sulfur. 100 lb. bag, \$6.00.

**Superphosphate** (0-20-0)—Important source of available phosphorus where economy is a factor. 100 lbs., \$2.50; 1000 lbs., \$17.00.

**Treble Superphosphate** (0-45-0)—Much more concentrated than Superphosphate. 100 lbs., \$5.50; 1000 lbs., \$47.50.

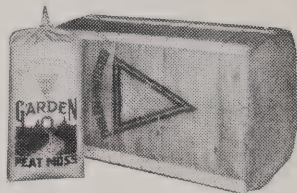
**Tree Food**—Permalawn—(see page 17).

**Tree Food**—Badger Brand (10-8-6). A moderately priced tree food of the conventional 10-8-6 analysis but of an improved formula. 100 lbs., \$3.75; 1000 lbs., \$35.00; 2000 lbs., \$68.00.

**Vigoro**—100 lbs., \$4.00; 500 lbs., \$20.00; 2000 lbs., \$80.00.

**Vitamin B1**—See page 27.

Prices on fertilizers are subject to market changes and our ability to secure materials and include delivery within 50 miles of Evanston or Chicago except where marked\*, to which add delivery charges.



Proper fertilization is the most important single operation that can be performed anywhere in the garden. The soil is a good growth medium only when it contains an adequate supply of plant food materials in a soluble form. Through the years this supply becomes constantly smaller unless it is replenished. This is best done through the application of good fertilizers at proper intervals.



# Aids to Better Tree Care

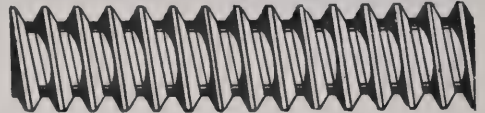
## TREE SURGERY SUPPLIES

### Double Galvanized Soft Tree Surgeon's Strand.



Seven wire cable of excellent quality made especially for tree surgery. This cable possesses great strength but is soft and pliable for easy splicing and handling. The uniform, double galvanizing gives much greater protection against weather than will be found with single galvanized cable.

	per 100 ft.	per 250 ft.	per 1000 ft.	Wt. 100 ft.
Diam.				
1/8 in.	\$1.25	\$3.00	\$11.62	6 lbs.
3/16 in.	1.50	3.25	12.75	8 lbs.
1/4 in.	2.10	4.55	17.62	10 lbs.
3/8 in.	3.90	8.80	34.50	29 lbs.
1/2 in.	5.97	14.35	55.10	53 lbs.



### Tree Rod Bright Zinc Plated 12 ft. lengths

Made of special cold finished steel of high tensile strength. Smooth, clean cut lag threads full length gauged to take lag nuts of same size. Uniform bright zinc plating gives longer protection against rust.

Diam.	Wt.	Each	9 Lengths
1/2 in.	6.2	\$1.89	\$15.20
5/8 in.	9.4	2.55	22.95
3/4 in.	13.8	3.39	27.28
7/8 in.	18.5	4.11	33.37



### GALVANIZED THIMBLES

Size	One dozen	per 100	Wt. per 100
3/16 in.	\$.60	\$3.75	2.0 lbs.
1/4 in.	.60	3.75	4.0 lbs.
5/16 in.	.82	4.50	5.7 lbs.
3/8 in.	.90	5.25	8.8 lbs.
1/2 in.	1.02	7.25	19 lbs.



### Eye and Eye Turnbuckles Hot Galvanized

Diameter	Length Inside	Weight	Price
1/4 in.	4 in.	3 lbs.	\$.32
5/16 in.	4 1/2 in.	6 lbs.	.40
3/8 in.	6 in.	8 lbs.	.48



### Lag Screw Hooks Bright Zinc Plated

Special design with long hook stem bent parallel to threaded stem. Clean cut lag threads extending up the stem to line of hook to prevent loosening of cable. The uniform bright zinc plating gives long protection against rust. Made of special alloy steel of unusual strength.

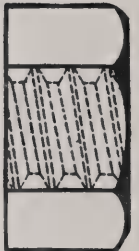
Size	Each	per 100
1/4 in.	\$.075	\$ 5.25
5/16 in.	.08	6.00
3/8 in.	.10	7.50
1/2 in.	.15	12.00



**Loop nuts**—Drop forged, lag screw threaded to fit tree rod. Suggested for heavy cable jobs. For 3/4" rod, 33c each; for 7/8" rod, 36c each.

### Tree Rod Nuts Bright Zinc Plated Clean lag threaded to fit tree rod and lag hooks of same size

Size	Each	Per 100	Wt. Per 100
1/2 in.	\$.06	\$ 3.75	7.2
5/8 in.	.07	5.25	13.0
3/4 in.	.10	7.50	21.2
7/8 in.	.15	11.25	33.2



### Tree Rod Washers Bright Zinc Plated Diamond

Size	Per Dozen	Per 100	Wt. Per 100
1/2 in.	\$.45	\$2.61	4.8
5/8 in.	.54	3.39	6.2
3/4 in.	.60	3.75	9.2
7/8 in.	.72	4.11	11.4

### Round

Size	Per Dozen	Per 100	Wt. Per 100
1/2 in.	\$.15	\$ .75	3.8
5/8 in.	.27	1.35	7.7
3/4 in.	.30	1.89	11.0
7/8 in.	.39	2.70	15.5

### Blocks

Oval steel blocks with bushed roller bearings and loose side hooks. These blocks are strong, light, and easy to handle among thick branches. For 1/2 inch rope, Single, \$1.25; Double, \$2.25; for 5/8 inch rope, Triple, \$3.50; other sizes available on special order.



### Mallets

Weight	Size	Handle	Price
24 oz.	2-7/8" x 5-1/8"	14"	\$1.90
40 oz.	2-1/2" x 5-1/2"	13"	3.00



Miller Mallets will not crack, chip nor dry out, as do wood and rawhide mallets. Their laminated construction built into one piece by a special process, insures remarkable durability.

# Aids to Better Tree Care

## TREE SURGERY SUPPLIES



### NEW BEDFORD MARITIME MANILA ROPE

For nearly 100 years New Bedford rope has been the standard of quality wherever rope is most important. Made of 100% pure manila of extra long, tough fibres, this rope affords greater strength and longer life. Now, to New Bedford Rope is added the "Maritime" treatment, which affords complete protection to each individual fiber, making "maritime" rope highly resistant to water and rot proof, and adding to its strength and long life. "Maritime" Manila rope stays flexible, wet or dry, and does not **twist** or **kink** when used under adverse conditions.

Where safety of a man depends upon rope it is good judgment to use New Bedford "Maritime" Manila.

Diam.	Breaking Strength	Wt. per 100 feet	Per 120 ft. Price	Coil 600 ft.	Coil 1200 ft.
1/2 inch	2,650 pounds	7.5 lbs.	\$ 3.15	\$14.30	\$28.56
5/8 inch	4,400 pounds	13.3 lbs.	5.57	24.85	49.68
3/4 inch	5,400 pounds	16.6 lbs.	6.75	30.40	60.75
1 inch	9,000 pounds	27.0 lbs.	10.93	49.20	98.50



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Saxolin crinkled water-proof paper for spiral wrapping of young trees and newly planted smooth barked trees. Prevents sun cracks and entrance of borers. Four inch width, 155 ft. roll, 75c; 10 rolls, \$6.00; 6 inch width, 155 ft. roll, 90c; 6 rolls, \$4.50; 8 inch width, 155 ft. roll, \$1.00; 5 rolls, \$4.33.

### TREE PAINT

**Protectree**, see page 14.

**Treesal**—Asphalt Emulsion—Thin only with water. 1 gal. pail, \$1.40; 5 gal. pail, \$5.00; 55 gal. drum, 90c per gallon.

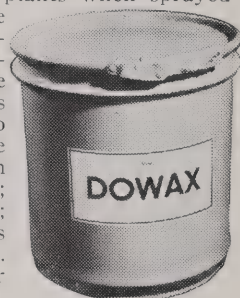
**Smoothcoat**—A specially prepared asphalt paint which produces a smooth and pliant water proof covering. Contains an effective fungicide and does not flow on cut. Thin with linseed oil. 1 gal. pail, \$1.50; 5 gal. pail, \$5.50; 55 gal. drum, \$1.00 per gallon.

**Creosote Wood Preserver**—Wood preservative and disinfectant. 1 gal. can, 90c; 5 gal. pail, \$3.70; 30 gal. drum, \$18.00; 55 gal. drum, \$27.50.

### TREE SURGEON SHELLAC (5 pound cut)

A special grade shellac prepared by dissolving five pounds of shellac per gallon instead of four, as is standard for the paint trade. Gives better protection to the exposed cambium layer. 10 oz. bottle, 40c; 1/2 gal., \$1.80; 1 gal., \$3.09.

**Dowax**—An antidesiccant which reduces the transpiration of moisture from plants when sprayed on the foliage. Its use on deciduous and evergreen trees and shrubs before storage and at the time of transplanting reduces loss and enables plants to become established more quickly. Dilute 1 gal. with 3 gal. water. 1 gal., \$2.15; 5 gal., \$9.35; 10 gal., \$15.40; 30 gal. drum, \$37.80. Prices F.O.B. Midland, Michigan. Shipping wt., 8 lbs. per gal.



**Klor-Kal**—A high grade calcium chloride packed in water proof 10 lb. bags. More economical than larger sizes where small amounts are needed. Klor-Kal is offered to the **tree surgeon** to prevent freezing of cavity cement mixture and to improve the ultimate strength of the concrete. 10 lb. bag, 90c; case of 6, \$5.00.



**Grafting Wax**—1 lb. bar, 63c; 5 lb. pkg., \$2.76; 10 lb. pkg., \$5.25.

**Stickate**—An effective material for waterproofing concrete surfaces. Has many other important uses. 1 gal., \$1.25; case of 6, \$6.50.

**Brass Cavity Drains**—Brass pipe, 1/2" ID; Three foot lengths, each end coarse threaded; per foot, 48c.

### PAINT BRUSHES

One inch width, of extra thickness for more rapid application of heavy paint; bristles vulcanized in rubber. Each, 15c; dozen, \$1.50.



# SIMPLIFIED INSECT AND DISEASE CONTROL

In the garden the difference between success and failure frequently depends upon how effectively the many insects and diseases are controlled. There are a number of new and more effective spray materials available which equip the gardener better in this battle than he has ever been before. But equally as important as efficient spray materials is an effective and properly executed spray program.

Spraying should be started early to catch the first insects before they have an opportunity to become established in great numbers. One thorough spraying which catches the first brood in an especially susceptible stage may be many times more effective than several applications later. As an example, the leaf hopper can be controlled most readily in the nymph stage.

## HOW TO SELECT INSECTICIDES AND FUNGICIDES

In selecting an insecticide it is necessary to consider the cost of the finished spray of effective strength. Some material may cost very little per pound or gallon compared with another, but because it is weak or dilute it will make so much less effective spray that the cost is much greater than that of the more expensive but more concentrated spray material.

**Ant Gas**—Liquid which forms heavier than air gas fatal to ants. A sure means of control without danger to persons or pets. 8 oz. can, 50c; pint, 85c; quart, \$1.50; gallon, \$4.50.

**Arsenate of Lead**—Effective and economical control for most chewing insects. Poisonous but longer lasting. 1 lb. carton, 35c; 4 lb. bag, 90c; case of 24 lbs., \$4.50; 96 lbs., \$14.50.

**Black Leaf 40**—see Nicotine Sulfate.

**Bordeaux Mixture**—Effective fungicide for the control of black spot, mildew, leaf spot, etc. One pound makes 5 gallons of spray. 1 lb. canister, 35c; 4 lbs., 90c; case of 24 lbs., \$4.50; 96 lb. case, \$15.00 Del.

**Borerkil**—Nicotine paste for killing borers, when injected into their burrows. 1½ oz., tubes, 55c; 4 lb. can, \$7.50.

**Carbon Disulfide**—Liquid for the control of ants. 1 lb. can, 50c.

**Cattle Fly Spray**—Mechling's contact and repellent fly spray. Safe and pleasant to use. 1 gal., \$1.30; 5 gal., \$6.00.

**Coprote**—A combination copper-rotenone dust providing combined disease and insect control. Proven especially effective against **leaf hoppers on dahlias, etc.** 10 oz. push-pull canister, 45c; 5 lb. bag, \$1.25; 25 lb. bag, \$5.00.

## BROWN PATCH CONTROL

**CaloClor**—Suspension Type—Powder for the prevention and control of both large and small brown patch on lawns. Use at the rate of 3 oz. per 50 gallons of water on 1000 sq. ft. of lawn area. 1 lb., \$4.80; 5 lbs., \$23.50.

**Calogreen**—Suspension Type—A finely powdered calomel prepared especially for the control of small Brown Patch. Gives prolonged protection with no danger of burning the grass. Use 3 ounces per 50 gallons of water for 1000 square feet. 1 lb., \$5.30; 5 lbs., \$26.00.

**Calomel**—See Calogreen.

**Corrosive Sublimite**—U.S.P. bichloride of mercury powder. An effective preventative and control for large brown patch. Valuable for treating bulbs and disinfecting soils to prevent damping off. Use 3 oz. per 1000 sq. ft. 1 lb., \$3.90; 5 lbs., \$18.50.



**Cuprocide**—Copper dust for treating seeds to prevent damping off. 4 oz., 35c; 1 lb., \$1.00; 5 lbs., \$4.25.

**Cuprocide "54"**—Prevents Post Emergence Damping Off. Also a good general fungicide. Use 3 lbs. per 100 gallons. 3 lb. bag, \$1.25.

## For Roses

Roses are commonly attacked by several fungous diseases which produce mildew, leaf spot, etc. A **non-staining** and effective control may be secured economically with Copper Solution. Should be used in combination with Pyrote if insects are to be controlled.



**Copper Solution**—(Active agent in numerous rose fungicides). A complete solution of copper which permits effective control of fungous diseases on roses, phlox, delphiniums, chrysanthemums, sweet peas, and many others, at a reduced cost. **Stimulates** plant growth, producing better flowers and vegetables. Non-staining. 1 gallon makes 100 gallons. 1 qt., \$1.50; 1 gal., \$4.60.

**Cyanogas A**—Dust fumigant for the control of ants, moles, and other burrowing insects and animals. 4 oz. tin, 30c; ½ lb. tin, 45c; 5 lbs., \$3.00; 25 lbs., \$10.00.

**Cyanogas G**—Greenhouse fumigant for the control of aphid, white fly, thrip, and other greenhouse pests. Also used to control burrowing rodents. 5 lbs., \$3.00; 25 lbs., \$10.00.

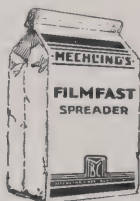
**Dinitro Orthocresol**—Ovicide for use with dormant oil to control aphids in egg stage. Use 1—1¼ lbs. per 100 gallons. 5 lbs., \$3.25; 50 lbs., \$30.00.

**Dormant Oil** (See Superior Scale Oil)

**Filmfast Spreader and Sticker**—A good spreader and sticker should be used with all powder types of spray materials, such as lead arsenate, Bordeaux Mixture, Copper "34", and sulfur to secure better spreading and better adherence of the material to fruit and foliage. The Arnold Arboretum has pronounced it the best spreader and sticker available and it has been found essential to the control of CEDAR-APPLE RUST through the use of sulfur. Use 2 pounds per 100 gallons. 2 lb. bag, 75c; 25 lbs., \$6.25; 100 lbs., \$20.00. (Cost per gallon of prepared spray 1c).

**Fly and Mosquito Spray**—1 qt., 50c; 1 gal., \$1.50.

**Kolodust**—A dust for the control of red spiders, mites, and fungous diseases where sulfur is indicated. 10 lbs., \$1.00; 100 lbs., \$7.00.



**Larvacide**—Soil fumigant which destroys worms, larve of various insects, disease fungi, and weed seeds in greenhouse and garden soils. One pound treats 100 to 200 square feet of soil. In one pound injector bottles, \$1.60 per pound.

**LED-KO**—A colloidal form of lead arsenate. If an attack of chewing insects occurs and it is desired to use a stomach poison for their control, **Led-Ko** will be found more effective and quicker acting than the ordinary type of lead arsenate. Being in liquid form and very concentrated it is more convenient to handle, mixes more easily in the spray tank, and does not discolor foliage as does ordinary lead arsenate. Small bottle (to make 15 gal.) 35c; 1 lb., \$1.25 (to make 200 gal.) (Cost per gallon of prepared spray— $\frac{1}{2}$ c to  $\frac{3}{4}$ c).



**Lime Sulfur**—(Dry)—Dormant spray for the control of scale insects; 3 lbs. to 12 gallons of water. 1 lb., 35c; 5 lbs., \$1.50; 25 lbs., \$4.50; 100 lbs., \$12.50. (\*3c).

**Lime Sulfur Solution**—Dormant spray for scale insects. 1 gallon to 12 gallons of water. Dis-colors paint and is less popular than dormant oil. 1 gal. \$1.25; 5 gals., \$4.25.

**Naphthalene Flakes**—5 lbs., \$1.60; 25 lbs., \$4.00.

**Nicotine**—(Liquid)—40% nicotine. For fumigating or spraying. 4 lb. can, \$6.00; 8 lb. can, \$11.00. (\*1 $\frac{1}{2}$ c).

**Nicoteen Powder**—Greenhouse fumigant which lights quickly and burns completely. 5 lb. tin, \$4.00; 10 lb. tin, \$7.00.

**Nicotine Sulfate**—Effective control for certain soft bodied sucking insects. 1 oz., 35c; 5 oz., \$1.00; 1 lb., \$2.25; 5 lb. can, \$5.85; 10 lb. can, \$10.60. (\*1 $\frac{1}{2}$ c).

**Nico-Fume Liquid**—For fumigating or spraying. 1 lb. can, \$2.50; 4 lb. can, \$6.50; 8 lb. can, \$12.00. (\*1 $\frac{1}{2}$ c).

**Paris Green**—1 lb., 55c; 5 lbs., \$2.50.

**Paradichlorobenzene**—Fumigant for the control of Peach Tree Borer and common house moths. Suggested to Tree Surgeons for use in cavities as a precaution against the entrance of borers. 1 lb. can, 50c; 5 lb. can, \$2.00.

**Pernacide**—Concentrated pyrethrum-rottenone spray of finest quality. An excellent general purpose spray where quick control is essential. Recommended especially for shade trees and shrubs, but is equally effective in greenhouse and garden. One gallon makes 400-800 gallons spray effective against many sucking and chewing insects. 1 qt., \$3.50; 1 gal., \$12.50; 5 gal., \$60.00.

**Pomogreen**—(With Nicotine)—Poisonous. 1 lb., 75c; 5 lbs., \$3.00. (\*16c).

### Red Spider and Cyclamen Mites and other Mites

"Rotenone appears at present to be the most promising spray material to try against the pallid (Cyclamen) mite and is effective also against aphids, thrips, and red spider mite. Since finely ground sulfur is also effective against exposed mites, better results may be secured by either combining a wettable sulfur with the rotenone spray or following each spray treatment with a light dusting of dusting sulfur."—Delphinium Society Year Book, 1939.

**Pyrote**—An excellent general purpose spray. Pyrote combines the killing power of both pyrethrum and rotenone and is thus effective against a greater number of both sucking and chewing insects. If a thorough spray program is started early, when the plants are young, the effective control of the most common insects may be expected. Pyrote is non-poisonous to humans and pets, and will not injure the tenderest foliage, does not discolor, contains its own spreader, mixes easily, and is economical. It is equally effective in the greenhouse, in the flower and vegetable gardens, on shrubs, and for fruit and shade trees. It is an excellent substitute for nicotine sulfate and has an important place in park and grounds maintenance. 1 oz., 35c; 6 oz., \$1.00; pt., \$2.25; gal., \$15.00.



**Rotenone "75"**—Non-poisonous dust effective against many sucking and chewing insects. Specific for the pea aphid and recommended for thrip on gladiolus. 1 lb., 30c; 5 lbs., \$1.00.

**Rotenone "400"**—Concentrated, non-poisonous spray. Contains 4% rotenone. Effective against red spider and other mites, thrip, and many other sucking and chewing insects, especially those attacking vegetables and flowers. Use 6 oz. per 35 gallons water, 6 oz., 50c; 4 lb. bag, \$1.80.



**Selocide**—Specific control for red spider, 1 gal., \$4.00; 5 gal., \$16.75.

**Semesan**—Semesan, Special—Control for brown patch. Use  $\frac{1}{2}$  lb. per 1000 sq. ft. 1 lb., \$2.25; 5 lbs., \$9.90.

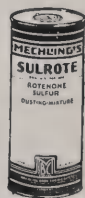
**Slug Shot Liquid**—A popular and effective contact insecticide for use throughout the garden. 1 oz. 35c; 1 pt., \$2.25; 1 gal., \$12.00.

**Slug Shot Powder**—Long a popular dust for the control of insects on vegetables, especially cabbage, cauliflower, cucumber, etc. 1 lb. carton, 25c; 5 lb. carton, \$1.00.

**Spor-go**—Special copper spray which contains its own spreader and sticker. Excellent and economical fungicide for use on trees, shrubs, flowers, etc. Use 1 pound to 20 to 40 gallons water. 8 oz. canister, 50c; 5 lb. bag, \$3.00.

**SULROTE**—Combination Fungicide and Insecticide. Sulrote is a combination sulfur and rotenone dust for use in the garden where dusting is preferred to spraying. It is an excellent control for leaf spot, mildew, and chewing insects on roses and lilacs, is especially recommended for the control of Thrip on iris, gladioli, and peony, and for Alternaria of carnation, and if used at proper intervals will control Red Spider and Cyclamen Mite. 12 oz. push-pull canister, 50c; 1 lb., canister, 40c; 5 lbs., \$1.25; 25 lbs., \$4.25.

**Magnetic Sulfur—Rotenone Spray**—A superior fungicide and insecticide consisting of finely divided sulfur and rotenone. Effective as either a dust or a spray. Recommended especially for the control of red spider, cyclamen mite, thrips, etc., and for mildew and leaf spot on roses. Contains 55 percent sulfur and 1.50 percent rotenone. 4 lb. bag, \$1.25; case of 24 lbs., \$6.45.





## Fungous Diseases

Fungous diseases attack many of the common garden plants and produce more or less severe damage. All such plants will be more vigorous if sprayed occasionally with a good fungicide. Either the copper or sulfur compounds are effective controls.

**SprayCop**—A very welcome substitute for Bordeaux Mixture. SprayCop contains nearly 3 times as much copper as Bordeaux Mixture and may be substituted for it at one third the rate with superior results. SprayCop mixes in the spray tank with greater ease, contains no free lime and may be combined with any other spray materials, does not discolor foliage as much as Bordeaux Mixture, has a wider margin of safety. One pound makes 20 gallons spray. 6 lb. bag, \$1.80; case of 48 lbs., \$12.24. (Cost per gallon prepared spray— $\frac{3}{4}$ c).



**Sulfur**—(Wettable)—Effective general fungicide for most fungous diseases encountered in the garden. Wets immediately upon addition to water and is easier and more pleasant to use than a dust. Very effective control for **Red Spider**. Use 4-5 lbs. to 100 gallons water, or as a dust. 2 lbs., 35c; 5 lbs., 55c; 24 lbs., \$2.50.



**Sulfur**—Super Adhesive Dusting. 100 lb. bag, \$6.80.

**Magnetic Dusting Sulfur**—A finely divided sulfur with great adhesive properties prepared especially for dusting plants for disease and red spider and mite control. 3 lb. canister, 50c.

## CEDAR-APPLE RUST SPRAY SCHEDULE

**Hawthorns and Crab-apples**—(spray only in spring)

Apply first spray as leaves are emerging from buds. Apply four or more sprays at 8 to 10 day intervals as long as galls on Red Cedar produce gelatinous material following a rain. Spraying just preceding or immediately following a rain is most effective.

**Red-Cedars**—(Spray only in fall)

Apply first spray about August first or when spore stalks develop on under side of leaves of hawthorns and crab-apples. Follow with 2 or 3 sprays at intervals of 2 or 3 weeks as long as spores are being produced by hawthorns and crab-apples

**Linco Colloidal Sulfur**—A very finely divided sulfur. Linco-Colloidal Sulfur is the most satisfactory control for **Cedar-Apple Rust**. When used in conjunction with **Filmfast** it has given a high degree of control of this disease on ornamental hawthorns and crab-apples and on red cedars. Linco-Colloidal Sulfur is also an excellent **General Fungicide** for use throughout the garden and furnishes a most effective and economical control for **Red Spider** and **Red Mite**. Use 6 pounds per 100 gallons. 1 pint, \$1.00; qt., \$1.50; 12 lb. kit, \$3.60; 25 lb. kit, \$6.75; 60 lb. kit, \$15.00. (Cost per gallon of prepared spray—1c).

**Snarol**—An insecticide bait to combat snails, cut worms, sow bugs and grasshoppers. Price,  $1\frac{1}{2}$  lb., 35c; 4 lbs., 85c; 15 lbs., \$3.00; 50 lbs., \$8.00.

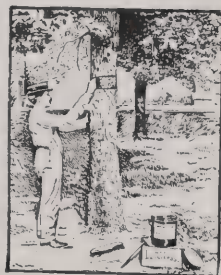


**SUPERIOR SCALE OIL**—A better dormant oil. Superior Scale oil is a carefully compounded, highly refined oil for the control of the scale insects which commonly infest orchard, shade, and evergreen trees, and ornamental shrubs. To make it a more complete control for insects during the dormant period it contains **resylic acid** in the amount recommended by experiment stations to destroy the APHIS EGGS usually present on these during the winter. One gallon makes 15-20 gallons. 1 qt., 65c; 1 gal., \$1.50; 5 gals., \$5.50; 15 gals., \$12.00.

**Tartar Emetic**—Recommended for the control of thrip on gladiolus.  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; 1 lb., 90c.

**Tobacco Dust**—5 lb. bag, 50c; 50 lb. bag, \$4.00. Nicotine content 1%.

**Tree Tanglefoot**—Checks attacks of insects which crawl up the trunks to feed upon the leaves. Effective against White Marked Tussock Moth and Spring Canker Worms if trees are banded in late winter. 1 lb., 70c; 5 lbs., \$3.25; 10 lbs., \$6.25; 25 lbs., \$12.75.



**Tree Tanglefoot Bands**—Balsam wool bands 3 in. wide. Place bands around tree, smooth side out, and spread Tanglefoot on bands. Soft wool fills crevices in bark, completing insect barrier. Easy to remove after period of insect attack is past. Price, Roll, 16  $\frac{2}{3}$  ft., 30c; log of 12 rolls, \$2.50.

**Trio-gen**—Gives protection against numerous diseases and insects on roses. Set consists of solutions Nos. 1, 2, 3. "A" kit for 4 gals., \$1.50; "B" kit for 16 gals., \$4.00; "C" kit for 32 gals., \$6.00; "D" Estate kit for 128 gals., \$20.00. (\*16c).

**Volk—Greenhouse:** Light oil spray effective against numerous chewing and sucking insects. 1 qt., 80c; 1 gal., \$2.50.

**Volk—Nursery:** A contact spray for use in the nursery and garden. 1 qt., 80c; 1 gal., \$2.50.

## DILUTION TABLE FOR HOME GARDENS

### Powder Spray Materials

- 1 lb. per 100 gallons water equals about
- 1 oz. per 6 gallons water equals about
- 1 level tablespoon per gallon

### Fluid Spray Materials

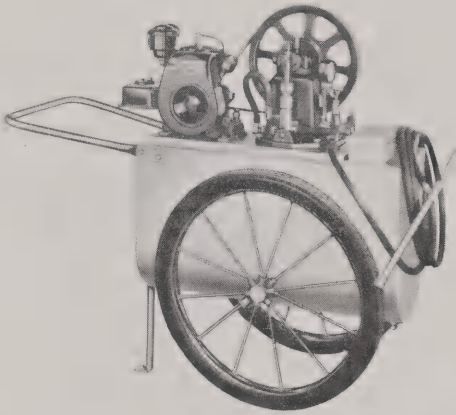
- 1 gallon per 100 gallons water equals about
- 4 fluid ounces per 3 gal. water equals about
- 3 tablespoons per gallon water

## *"Effective Spray Equipment"*

### SPRAY-RITE POWER SPRAYERS

For Better Insect and Disease Control

HIGH PRESSURE  
GIVES BEST CONTROL



#### SPRAY-RITE No. 25G

Replace old, inefficient hand sprayers and compressed air sprayers with one of these compact, easy to handle, efficient, low priced power sprayers.

#### —SPECIFICATIONS—

*Spray-Rite No. 25G*—18½ inches overall width, 25 gallon rust proofed steel tank, 1½ gallon per minute discharge at 250 pounds pressure, 25 ft. 3/8 inch high pressure hose, adjustable spray gun No. 3194.

With ½ H.P. Briggs & Stratton engine, 26 x 2¼ inch pneumatic tires, **\$110.00** delivered.

With ⅓ H.P. Electric Motor, 26 x 2¼ inch pneumatic tires, **\$103.00** delivered.

*Spray-Rite No. 225G*—Same as above but with 50 gallon tank and 5.50 x 16 inch pneumatic tires, **\$142.00** delivered.

For Flowers, Shrubs, Evergreens, Small Trees

### THE PARK SPECIAL

#### SPRAY-RITE No. 50G

The most efficient, large capacity, portable power sprayer ever offered at this price.

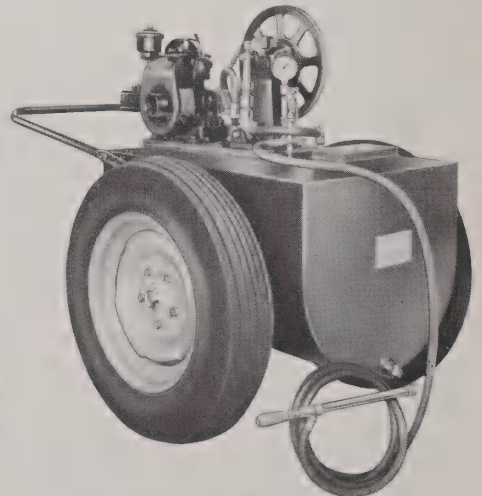
Economical of man-time and materials.

#### —SPECIFICATIONS—

Fifty gallon rust proofed steel tank. Double cylinder pump, 3 gallons per minute at 300 pounds pressure, ¾ H.P. Briggs & Stratton engine, disc wheels with roller bearings, 5.50 x 16 inch pneumatic tires, 25 ft. ½ inch high pressure hose, adjustable spray gun No. 3198.

Price, **\$210.00** delivered

Pump only, \$68.75



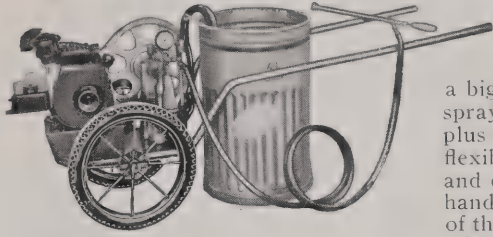
EVERY PARK, ESTATE,  
CEMETERY NEEDS ONE

For Shrubs, Evergreens, Moderate Sized Trees



## SPRAY-RITE WHEELBARROW SPRAYER

A genuine power sprayer with all the features of



a big  
sprayer  
plus the  
flexibility  
and easy  
handling  
of the  
wheel-

barrow type. This is not merely a wheelbarrow sprayer with a motor attached, but a small power sprayer with conventional pump unit with ample capacity for spraying evergreens and small shade trees and lawns for brown patch control. **Fully equipped for spraying.**

### SPECIFICATIONS

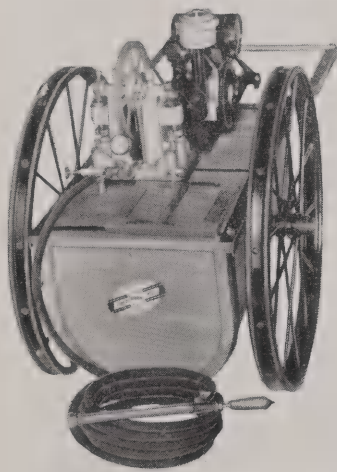
Capacity, 1½ gallons per minute at 250 lbs. pressure; 18 gallon galvanized steel tank, 2 x 16 inch pneumatic tires, 25 ft. ¾ inch high pressure hose, adjustable spray gun No. 3194.

With ½ H.P. Briggs and Stratton Engine, \$97.50.

With ¾ H.P. A.C. Motor, \$90.50.

Pump unit only, \$39.50.

## PORTABLE POWER ESTATE SPRAYER—



Capacity 3 and 4½ gallons per minute. A high pressure, light weight sprayer capable of handling all spray jobs (except high shade trees) on the larger estate, cemetery, nursery, and golf club. A bigger sprayer of excellent quality at a lower price. **Fully equipped for spraying.**

Specifications:

Pump: Double cylinder, high pressure; stainless steel ball

valves and valve seats; self oiling.

Tank: 65 gallon Redwood, well reinforced.

Agitator: Gear driven, Impellor type.

Discharge Equipment: 25 ft. ½ inch **high pressure hose**; **Spray gun** with shut off, and adjustable for fine, medium, coarse, or long distance spray. Brass Y for connecting two spray lines.

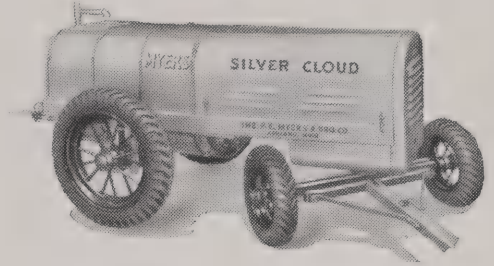
Price: 1 HP Engine, 4½ gallons per minute, 350 pounds pressure, weight 445 pounds with 4" x 36" pneumatic tires, \$275.00.



## BRASS HOSE COUPLINGS AND CLAMPS

High pressure connections for ½" and ¾" hose. Can't pull out or slip off. Complete, \$1.50. Clamps only, 35c each. Couplings, male 30c; female, 40c.

## HEAVY DUTY SPRAYERS



### Myers Silver Cloud Sprayers

Meet the demands and have the stamina required for spraying shade and ornamental trees in municipalities, cemeteries, parks, institutional grounds, and estates.

The famous Myers Self-Oiling Bulldozer Triplex Spray Pumps, which are standard equipment on these sprayers, are capable of maintaining extremely high pressures, through long leads of hose when necessary, for delivering the spray to the tops of high trees.

Pump capacities from 5 gallons per minute to 35 gallons per minute. Available in wheel, skid, and trailer models, from \$272.00 up.

Complete catalog sent upon request.

**"You can't go wrong with a Myers"**

*Satisfaction guaranteed by the Manufacturer.*

## SPRAY GUNS



**No. 3198**—Standard size gun for commercial and larger estate sprayers. Of heavy material throughout and adjustable from fine mist to strong stream. Each, \$8.00.

**No. 3194**—A small size, light spray gun designed for use with all small power sprayers. Delivers a wide variety of sprays by a slight turn of the handle. For ¾ or ½ inch hose. Each, \$4.50.



**Bamboo Spray Pole**—Lined with continuous brass tube fixed at both ends; with stop cock and drip shield. 8 ft., \$4.50; 10 ft., \$4.75.

## Horticultural Spray Hose—Goodrich

Spray Hose of finest quality, built for years of severe, trouble free use at high pressures. Hipress, ½" ID, braided hose, 800 lbs. pressure, \$35.80 per 100 ft.; No. 88, ½" ID, wrapped hose, 500 lbs. pressure, \$32.60 per 100 ft.; High Duty, ½" ID, braided hose, 600 lbs. pressure, \$32.60 per 100 ft.

## HAND SPRAYERS

**Spraymore**—Knap-sack type continuous sprayer in which pressure is easily maintained by operator while spraying. Capacity, 4 gallon, full open top, automatic shut-off,

and adjustable angle fog nozzle. Galvanized, \$15.00; Copper, \$21.00.

**Pennant**—Full open top, heavy duty sprayer. Side seam riveted, top and bottom beaded. Soldered throughout and tested to 100 lbs. pressure. Galvanized, \$6.00; Copper, \$10.50.

**Contender**—Funnel Top, heavy duty sprayer. Side seam riveted, top and bottom beaded. Soldered throughout. Capacity, 3¼ gal. Galvanized, \$4.00; Copper, \$6.00.

**Flash**—Smallest pressure sprayer, capacity 2¼ gal. Funnel top; seams riveted and beaded. Ideal for the lady gardener, and for small gardens. Galvanized, \$3.25; Copper, \$5.75.

**Jumbo**—Hand spray, 3 qt. Continuous action, two way nozzle. Patented plunger which always works. Strongly built. Galvanized, \$1.50.

**Baron Bucket Pump Sprayer**—Permits higher pressure spraying and larger volume than compressed air sprayers. Very practical for estates. Equipped with agitator, See at left. Each, \$7.20.

**Copper extension rods** to fit all above sprayers—4 ft., \$1.00; 2 ft., 60c.

**Pennant Automatic Shut-off**, without nozzle, \$1.00.

**Adjustable Nozzle**, can be changed to any angle, \$1.30.

**Hose**—3/8" Red Corrugated, inner liner spray proofed; 250 lbs. working pressure. Per ft., 15c; 25 ft., \$3.00.

## CONTROL WEEDS BY BURNING

**Lowell Flame Sprayer**—A compact, light flame sprayer that develops 2000° F. with 12 inch, flat flame. Burns weeds, seeds, rubbish, etc. Useful for thawing out pipes, melting lead, asphalt, roofing, and the like. Tank, 4 gal. capacity, hose treated to resist oil. Price, complete, \$15.00.

Has been effective in controlling crab grass if used at the time the seed was maturing and before it shatters.

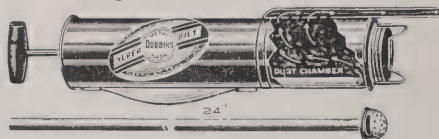
## TROMBONE SPRAYER

**Trombone Sprayer**—The trombone type of sprayer

delivers a fine spray at up to 100 pounds pressure as soon as pumping is started.

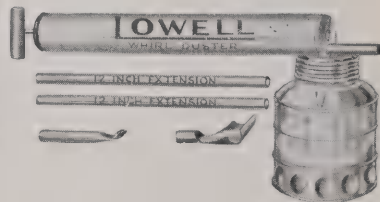
Works in buckets, barrels, tanks, lakes, or streams. Handles any spray solution. Each, \$4.00.

## ADJUSTABLE DUSTER

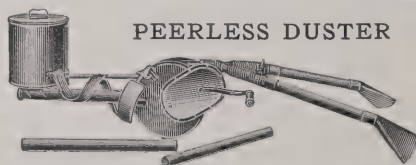


**Adjustable Duster**—A small hand duster is valuable in any garden. One pound capacity, special discharge cap spreads dust stream and is quickly adjustable to dust under leaves. Each, \$1.15.

**Whirl**—Hand duster, 24 oz., 2-12" extension with upshot spout. Each, \$1.00.



## PEERLESS DUSTER



A large capacity crank duster of sturdy construction for nursery and orchard dusting. Hopper at back and gun and nozzles in front give balanced load and flexible tubes permit dusting at any angle. Price, \$25.00.



## WEED KILLERS

### CONTROL LAWN WEEDS with **ZOTOX WEED KILLER** Formerly Eureka Weed Killer

A proven arsenical spray which controls crab grass, dandelions, plantain, chickweed, and other lawn pests with minimum damage to grass. One pound treats 1000 to 2000 square feet. 8 oz., \$1.00; 1 lb., \$1.50; 2 lbs., \$2.50; 5 lbs., \$4.50.

**Arsenic Acid**—For dandelion control. 185 lb. carboy at 15c per lb.

**Atlacide**—For the destruction of all weeds and grass in drives and tennis courts. 5 lbs., \$1.50; 15 lbs. (for 1500 sq. ft.), \$2.75; 50 lbs., \$7.00; 100 lbs., \$12.50. (cost per 1000 sq. ft., \$1.80).



**Dandelion Killer**—Two or three drops applied to the crown of dandelions, plantain, buckhorn, and other rosette type lawn weeds offers a quick and easy way of eliminating these lawn pests. 1 qt., 50c; 1 gal., \$1.50; 5 gal., \$6.25.

**Herbicide**—Destroys ordinary grass and weeds; dilute one gallon to 40 or 50 gallons of water and apply on 2500 sq. ft. Qt. can, 50c; gal. can, \$1.50; 5 gal. can, \$6.00.

**Meo 181**—New weed killer for dandelions, plantain, and other broad leaved plants. Turns grass brown for 4 to 6 weeks. Use 5 gals. per 1000 sq. ft. 1 gal., \$1.55; 5 gals., \$7.25. (cost per 1000 sq. ft., \$7.25).

**Purfeck—Chickweed Eliminator.** One gallon will treat about 2500 sq. ft. Gallon, \$2.00; 5 gal., \$8.00.

**Sodium Arsenite**—Effective control for lawn weeds when used in proper dosages. One hundred pound drums only, \$15.00.

**Sodium Chlorate**—For crab grass control. Instructions sent with order. Specify area involved. 100 lb. drums, \$14.00.

### Control Chickweed

Lead arsenate powder is an effective control for chickweed as well as grubs and earthworms in the soil. Ask for instructions.

### FOR TENNIS COURTS

**Calcium Chloride**—Dowflake is an unusually pure grade of calcium chloride and is recommended for settling dust of drives, tennis courts, etc. Keeps weeds under control and melts ice and snow in the winter time. Improves cement mixtures. Packed in water proof bags; 100 lbs., \$2.75.



## ANIMAL REPELLENTS



**Dogskat** — Repellent for dogs and cats when sprayed under and around shrubs and evergreens. Non-poisonous.

### DOGSKAT

**Dog Skat** (liquid spray)—Stops dog injury to lawns, Evergreens, trees. Bottle, 35c.

**Dog Skat** (tubes)—Keeps dogs away from trees. Hang in Evergreen clumps. Each, 25c.

**Repellent Paint**—Protects crocus, tulips, seeds against gophers, squirrels, rabbits, and mice. May be sprayed on base of tree trunks to prevent winter rodent injury. 1 qt., \$1.75; 1 gal., \$3.50.

## PLANT HORMONES AND VITAMINS, ETC.

**Indol B<sub>1</sub>**—Vitamin B<sub>1</sub> combined with indol acetic acid. Gives rapid rooting plus rapid root growth. Package of 25 pellets (for 2000 to 5000 cuttings), \$1.00.

**Vitamin B<sub>1</sub> Pellets Plus**—Vitamin B<sub>1</sub> plus 4 other vitamin growth factors proven beneficial to plants. Now in pellet form to fit B<sub>1</sub> vitamizer below. 100 pellets, (1 mgm. Vitamin B<sub>1</sub>) and Shake-A-Drop bottle, \$1.00.

**Floralife**—Food for cut flowers. Makes flowers last 3 to 5 days longer. Pkt., 10c; Family pkt., \$1.00; Commercial pkt., \$2.50.

*Thompson's*  
**B<sub>1</sub> VITAMIZER**  
**For LARGE OUTDOOR AREAS**

NO TEDIOUS  
MEASURING—  
NO DRUDGERY

NO  
BACK BREAKING  
WATERING CAN

*Vitamizes  
an entire garden  
in just a few minutes.*

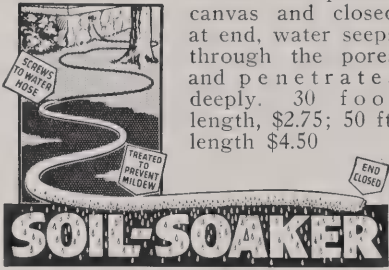
**LAWNS  
FLOWERBEDS • TREES  
SHRUBS**

**\$1**

PAT. APPL. FOR

THOMPSON'S B-1 VITAMIZER IS ENGINEERED FOR  
USE WITH THOMPSON'S 1 MG. B-1 PELLETS ONLY

**FOR TERRACE SLOPES AND PARKWAYS  
IT REALLY SOAKS THE SOIL**

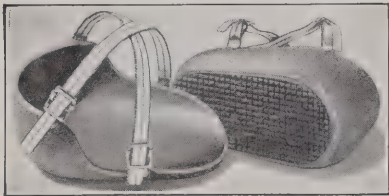


Made of porous canvas and closed at end, water seeps through the pores and penetrates deeply. 30 foot length, \$2.75; 50 ft. length \$4.50

**Waterwand**—Water flowers, rose bushes, etc., without wetting the foliage. The Waterwand is a valuable aid in watering plants in **benches and borders**. Water roses without scratching hands and reach difficult places. Waterwand releases water in a steady, gentle flow at base of plants. 52 inches long. Each, \$2.50.



**Eezy Wear Gloves**—Made of imported leather, soft, comfortable, sift proof; washable and durable. Ladies' sizes, "small", "medium", "large". Men's sizes "medium" and "large". Pair, 75c.



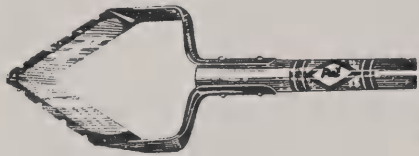
**Rubber Knee Pads.** Made of solid and soft sponge rubber. Protect the knees against moisture and out wear several pairs of leather pads.

Adjustable straps prevent slipping down while walking. Pair, \$1.50.

**Wild Bird Feeding Shelters**—Well built and attractive. 20% discount from price shown. No. FS21 Double Weather vane. Stained brown, \$5.00

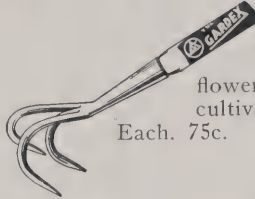


Same but with glass back, \$7.50. No. FS22 Stationary type. \$5.00. No. 4 Robin Roost—nesting shelter for Robins. Stained brown. \$1.25

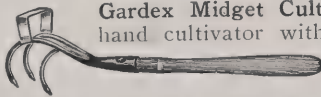


**Diamond Point Hoe**—The perfect push hoe. Has many other uses and permits

much more rapid and easier weeding and cultivation close to plants. Easy to use in beds and shrubs. Each \$1.50.



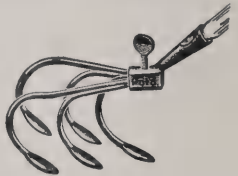
**Gardex Cultivator, 3 prong.** A most efficient cultivator tool for the flower bed and border. Makes cultivation of shrubbery easy. Each. 75c.



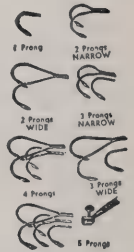
**Gardex Midget Cultivator.** An excellent hand cultivator with narrow weeder attachment. Each, \$1.00.

**GARDEX SOIL FLOW TOOLS**

**7 Tool Cultivator.** An effective new type cultivator which can be changed from 5 to 1 prong by loosening wing screw and removing prongs not needed. Seven combinations possible. No wrench needed and no bolts to loosen. Price, complete, \$1.35.

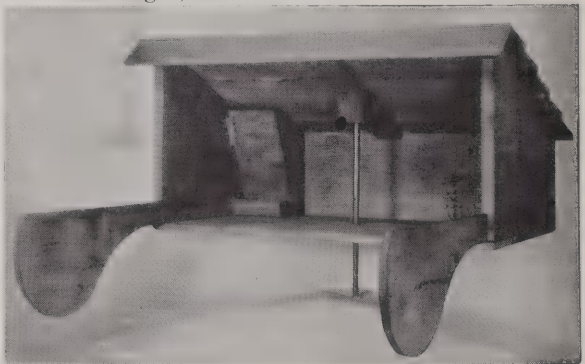


**Garden Pull Hoe**—V shaped blade penetrates easily, weeding and cultivating in one operation. Leaves soil level. Much easier than the chopping type of hoe. Complete, \$1.25.



**Asparagus Knife**—Excellent

for digging dandelions and other weeds. 16 inch length, 50c.





## MISCELLANEOUS SUPPLIES

**Colored Raffia**—Best quality imported raffia dyed green to blend with plants. Strong and durable, it is the best material to use for tying plants to stakes or supports. Easily clipped at end of season. 2 oz. bunch, 25c; 1 lb., 95c.

**Plain Raffia**—Best grade of imported raffia in natural color. Strong and durable plant ties. 1 lb., 50c.

**Twine**—Soft, strong, 2 ply twine dyed green. Best for tying dahlias and other plants. Cut in 4 foot lengths, 100 pieces per hank. Hank, 25c; 6 hanks, \$1.40.



**'TWIST-EMS'** —Dark green strong tapes with wire reinforcing that make perfect plant ties. Packed in boxes to be carried in the pocket. No tying, no knots. 8 inch, box of 125, 25c; 4 inch, box of 250, 25c.

**Plant Markers, Brandt's All Metal**—Made of special zinc alloy which will not rust or corrode. Special writing fluid makes permanent marker. B-200 writing fluid, 15c; B-201 label and holder, 3 for 10c; B-202 large holder, 5c each; B-203 small holder, 3 for 10c; B-204 small insert, 8 for 5c; B-205 large insert, 6 for 5c; B-206 small wired tag, 4 for 5c; B-207 large wired tag, 3 for 5c; B-208 special pen point, 5c; B-209 special pen holder, 5c.

**Hotkaps**—  
To  
protect  
young  
plants  
from  
frost  
and  
trans-



plants from drying out. **Home Package**, includes 100 Hotkaps, Setter, and Tamper, \$2.65; **Trial Package**, includes 250 Hotkaps, Setter and Tamper, \$3.85; 1000 Hotkaps, \$10.25.

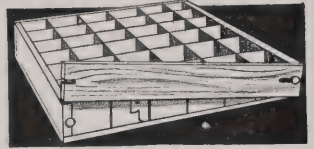
**Plant Stakes**—Bamboo, painted green, per 100, 2 ft., \$1.00; 3 ft., \$1.35; 4 ft., \$1.65; 5 ft., natural heavy tonkin, doz., \$1.10; 6 ft. Dahlia stakes of California Redwood, 1 1/4" square, rounded corners, durable, long lasting, natural color, doz., \$1.50; 100, \$10.00; 6 ft. Cypress Dahlia Stakes 7c each.

**Plant Labels**—Wooden, clear paint, for pots. 4 inch, 100, 45c; 1000, \$2.10; 5 inch, 100, 50c; 1000, \$2.75; 6 inch, 100, 55c; 1000, \$3.25; 12 inch, 100, \$1.45; 1000, \$12.50. Wooden, clear painted, copper wired. Small, doz., 25c; 100, \$1.75; Large, doz., 35c; 100, \$2.35.

**Neponset Plant Boxes**—Hold 12 plants, each 20c; doz., \$1.60; 100, \$10.95.

**Neponset Paper Pots**—2 1/2 inch, doz., 17c; 100, 75c; 4 inch, doz., 28c; 100, \$1.45; 6 inch, doz., 40c; 100, \$2.75.

**B-B Seed Flats** —  
Made from choice lumber and with patented removable front. Inside dimensions, 12 3/8" x 18 3/8"; each, 60c; dozen, \$6.50.



**Ball Plant Bands\***—Wooden bands for transplants. 2x2x3 inches, 100, 45c; 500, \$1.40; 2 1/2x2 1/2x3 inches, 100, 55c; 500, \$1.50.

\*Prices F.O.B. our warehouse.

**Brytene Wax**—Suggested for dipping dahlia and other tubers and roots to prevent loss of moisture during storage. Gal., \$2.50.

### Suggestions for Ordering

In ordering please give name of item, quantity, and prices. An order blank is enclosed for convenience in ordering and another will be sent with acknowledgement of order.

### Payment

Except for established accounts, orders should be accompanied by check or money order. Otherwise shipment will be made C.O.D. and the fee included in the charge. The prices shown do not include Illinois Occupation tax, for which add 3 percent to total amount of order for goods to be delivered in Illinois.

### Shipping

All shipments will be made by most economical means, unless instructed otherwise. Deliveries by truck will be made promptly in accordance with the regular schedule of the trucking concern employed unless a rush delivery is specified.

All prices shown include delivery except as noted for some fertilizers on page 4, but do not include charges necessary for special delivery services.

### Disclaimer

We make every possible effort to supply seeds of only the highest quality in every respect. However, because of factors beyond our control after seeds leave our warehouse, we, in common with all other American seed houses, make all sales subject to the seedman's disclaimer as follows:

Permalawn Products Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any seeds it sells, and will not be responsible for the crop; and it gives no warranty, expressed or implied, as to fertilizers, other than in respect to analyses or other data expressly and lawfully required of the seller by statutes.

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## PERMALAWN PRODUCTS COMPANY

Formerly Caldwell Seed and Supply Co.

1620 Payne Street

Evanston, Illinois



Permalawn Products Company

1618-22 Payne Street, Evanston, Illinois

Specialty Products for Better Gardening and Tree Culture

Please ship the following to:

NAME \_\_\_\_\_

Date \_\_\_\_\_ 19\_\_\_\_

Street

City \_\_\_\_\_ State \_\_\_\_\_

Amount enclosed: Money Order \$..... Draft or Check \$..... Cash \$.....

Charge the account of \_\_\_\_\_ Signed by \_\_\_\_\_

Send no cash or currency unless registered.

QUANTITY	NAME OF ARTICLE	PRICE	
		Dollars	Cents
	Permalawn Plant Food		
	Permalawn Tree Food		
	Permalawn Superior Lawn Seed		
Carried Forward, \$			

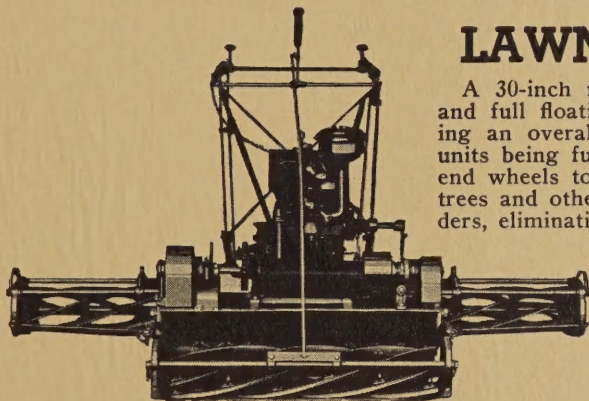
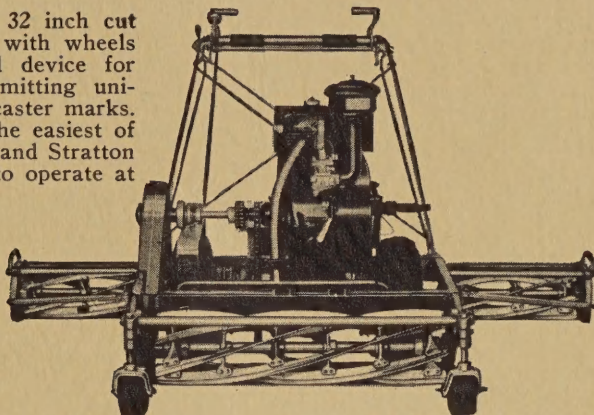
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# CAREFUL BUYERS SELECT MOTO-MOWERS

**FLEETWAY** A powerful 32 inch cut wheel mower with wheels rearward of cutting unit and patented device for lifting grass behind caster wheels, permitting uniformly mowed lawn, without streaks or caster marks. Twist of the wrist guiding makes this the easiest of operation possible. The  $2\frac{3}{4}$  H.P. Briggs and Stratton engine delivers an abundance of power to operate at high speed with side units, trailer units, roller, snow plow, lawn or road sweeper, or other equipment available. Price, \$405.00 delivered. With full floating, power driven side units (72 inch total cut), \$668.00. Lighter model available in the Commander at \$353.00.



## LAWNMASTER TRIPLEX

A 30-inch roller type mower with full floating reel, and full floating, power driven side cutting units, giving an overall cutting width of 72 inches. All three units being fully floating there are no caster wheels or end wheels to mark the lawn. Cuts within 2 inches of trees and other plants and over edges of beds and borders, eliminating most hand trimming. Guides so easily and quickly that it can be operated with one hand. Embodies the simple design of all Moto-mowers, requiring less time for oiling and proper maintenance and will give years of trouble-free service. Powered with Briggs and Stratton engine. The side units are quickly and easily removable, or may be lifted up or out of gear. Price without side units, \$400.00. With side units, \$567.00.



## CITY MODEL

Where a medium sized power mower is desired the City Model has proven a splendid machine. Possessing "Twist of the Wrist" guiding and automatic engine control, the City Model embodies more "big" mower features than any other power mower in this price field. The Briggs and Stratton engine delivers an abundance of power for fast, heavy cutting. The simple sturdy design, and high quality construction have earned for the City Model a reputation for enduring service and make it an ideal mower for the smaller estate. 22 inch cutting width. With slip-on rubber tires, \$185.00.

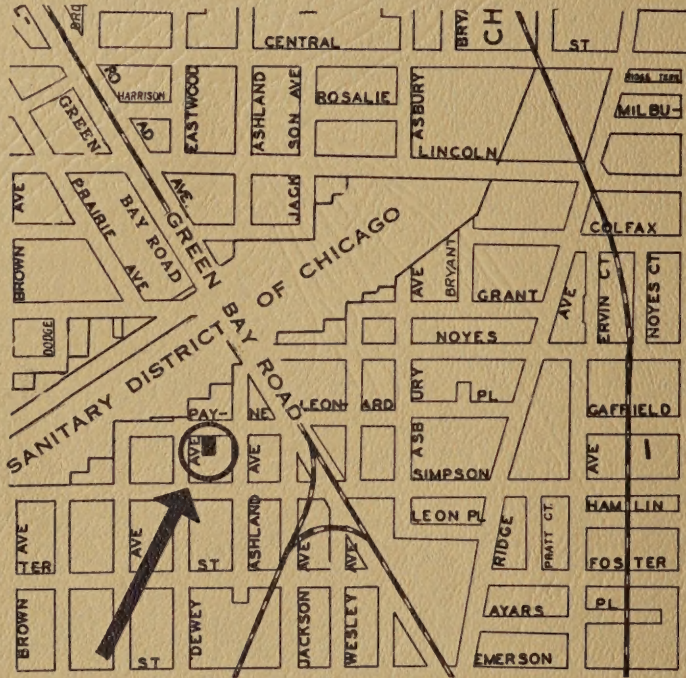
COMPLETE CATALOG ON REQUEST

★ MOTO-MOWERS

AS NEW AS TOMORROW



## WHERE WE ARE!



*There Better Lawns and Gardens Are For Sale.*

Our large warehouse and display room are located in the PAYNE STREET industrial section of Evanston. Payne Street runs west from Green Bay Rd. (Railroad Ave.) at 2100 north or 1½ blocks south of the Sanitary District Canal bridge. Removed from the main business section, we have no traffic or parking problems and are easily accessible from any direction.

# Permalawn Products Company

(FORMERLY CALDWELL SEED AND SUPPLY COMPANY)

## EVANSTON, ILLINOIS